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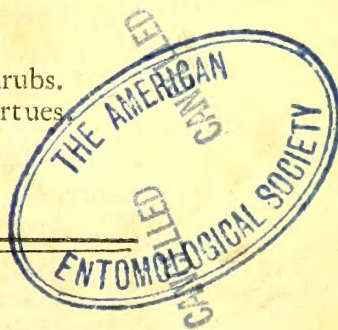
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Herbs of the same Class have similar Virtues.

Virginian Wasps, Bees, &c.



LONDON,

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N. B. *Whoever can give any Hints towards the Life of Mr. PETIVER or his Family, the Favour will be gratefully acknowledged by* *Their most obedient humble Servant,*

J. MILLAN.

THE indefatigable ingenious Mr. PETIVER had the greatest advantages, in compiling this Work, that a man could wish, by his intimacy with Sir Hans Sloan, Dr. Lister, Mr. Ray, and all the great men of his time, at home and abroad. He was a great assistant to Mr. Ray, Sir Hans Sloan, &c. in their works; has wrote many papers in the Philosophical Transactions, and had correspondents in most parts of the world, who generously sent him the productions of all the parts they travelled to. He died Apothecary of the Charter-House, universally regretted, April 4, 1718. aged about 60. He is quoted, and esteemed as the best authority, by Linnæus, and most other natural historians. He was admitted Fellow of the Royal Society, Nov. 27, 1695.

Mr. Ray had a great regard for him, as may be seen in his History of Plants, Synopsis, &c. printed in 1688, 1690, 1696, &c.

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Brief Directions for the Easie Making, and Preserving Collections of all NATURAL Curiosities.

For JAMES PETIVER Fellow of the Royall Society LONDON.

All small Animals, as Beasts, Birds, Fishes, Serpents, Lizards, and other Fleahy Bodies capable of Corruption, are certainly preserved in Rack, Rum, Bandy, or any other Spirits; but where these are not easily to be had, a strong Pickle, or Brine of Sea Water may serve; to every Gallon of which, put 3 or 4 Handfulls of Common or Bay Salt, with a Spoonful or two of Allom powderd, if you have any, and so send them in any Pot, Bottle, Jarr, &c. close stoppt, Cork'd and Rosin'd. N.B. You may often find in the Stomachs of Sharks, and other great Fish, which you catch at Sea, divers strange Animals not easily to be met with elsewhere; which pray look for, and preserve as above.

As to Fowls, those that are large, if we cannot have their Cases whole, their Head, Leggs, or Wings will be acceptable, but smaller Birds are easily sent entire, by putting them in Spirits as above, or if you bring them dry, you must take out their Entrails; which is best done by cutting them unde their Wing, and then stuff them with Ockam or Tow, mixt with Pitch or Tar; and being thorough-ly dried in the Sun, wrap them up close, to keep them from Moisture, but in long Voyages, you must Bake them gently, once in a Month or two, to kill the Vermin which often breed in them.

All large pulpy moist Fruit, that are apt to decay or rot, as Apples, Cherries, Cowcumbers, Oran- ges, and such like, must be sent in Spirits or Pickle, as Mangoes, &c. and to each Fruit, its desired you will pin or tie a sprig of its Leaves, and Flowers.

All Seed and dry Fruit, as Nutts, Pods, Heads, Husks, &c. these need no other Care, but to be sent whole, and if you add a Leaf or two with its Flower, it will be the more instructive, as also a piece of the Wood, Bark, Root, or Gum of any Tree or Herb that is remarkble for its Beauty, Smell, Use, or Vertue.

In Collecting PLANTS, Pray observe to get that part of either Tree, or Herb, as hath its Flower, Seed, or Fruit on it; but if neither, then gather it as it is, and if the Leaves which grow near the Root of any Herb, differ from those above, be pleased to get both to Compleat the Specimen; these must be put into a Book, or Quire of Brown Paper stich'd (which you must take with you) as soon as gathered; You must now and then shift these into fresh Books, to prevent either rotting themselves or Paper. N.B. All Gulph-Weeds, Sea-Mosses, Coralls, Corallines, Sea Feathers, Spunges, &c. may be put altogether into any old Box, or Barrel, with the Shrimps, Prawns, Crabs, Crawfish, &c. which you will often find amongst the Sea weeds, or on the Shoar with the Shells, which you may place in layers; as we do a Barrel of Colchester Oysters. All SHELLS may be thus sent as you find them, with or without their Snails in them, and wherever you meet with different sizes of the same sort, pray gather the fairest of all Magnitudes; the Sea shells will be very acceptable, yet the Land, and Fresh- water ones, are the most rare and desirable. In Relation to INSECTS, as Beetles, Spiders, Grasshopper, Bees, Wasps, Flies, &c. these may be Drowned altogether, as soon as Caught in a little wide Mouth'd Glass, or Vial, half full of Spirits, which you may carry in your Pocket. But all Butterflies and Moths, as have mealy Wings, whose Colours may be rub'd off, with the Fingers, these must be put into any small Printed Book, as soon as caught, after the same manner you do y Plants.

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N.B. As amongst Forreign Plants, the most common Grass, Rush, Moss, Fern, Thistle, Thorn, or vilest Weed you can find, will meet with Acceptance, as well as a scarcer Plant; So in all other things, gather whatever you meet with, but if very common or well known, the fewer of that Sort, will be accep- tible to

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PATRONIS suis & MOECENATIBUS, D. D. D.

JACOBUS PETIVER.

Tab. 1. **L** Acertus MARIANUS minor caudâ cæruleâ. Particular in having a blew shining Tail, found about Trees in MARYLAND.

2. Piscis Quadrangularis parvus, verrucosus & reticulatus. Taken out of the stomach of a Codfish, in an East India Voyage.

3. Obscubion CAROLINIANUS, perelegans, squammis bifariam variegatus. Th's elegant Animal given me by Dr. LISTER, who had it from Carolina, sea Loufe or jointed Lempit.

4. Asellus marinus, e nigro luteoque striatus. Sea Hog-louse, Brought up with angling in Smyrna Bay.

5. Scarabeolus Hemisphæricus Cochinelifer. Cochinilla & Coccinilla Offic. Dale 539. 5. Cechineal. Act. Phil. 176. p. 1202 & No. 103, represented in its several states.

6. Plan. Orbis Indica, ex castaneo alboque striato, umbilico patulo. from Fort St. George.

A. 7. Papilio Leucomelanus Cantabrigienfis. nobis. Papilio Leucomelanus subtus viridescens matmoreus Mus. Petiver, 304. Vernon's half mourner. I know not of any that hath met with this in England, but Mr. Vernon about Cambridge, and there very rare.

8. Papilio Ulfipponensis, ex-nigro luteoque mixtus, maculis sanguineis aspersis. Distinguished in being sprinkled with some bloody spots: observed about Lisbon.

9. Xeranthemum speciosum e Cap. Bon. Sp. fl. albo maximo Mus. PET. 300. After Gnaphaloides, elegant plant from Dr. Fred. Raych. It's distinguished from all others by its large white strawy flowers and thick cloth-like leaves.

10. Plantago Mariana spicâ prætenue Mus. PET. 668 Maryland

11. Ornithogalum Virginianum, luteum, foliis Gramineis hirsutis. nobis. Ornithogalum luteum parvum, foliis hirsutis. Ray H. Pl. 1927, common in Carolina, Maryland, and Virginia. Its hairy Grasslike Leaves distinguish it.

12. Gladiolus lacustris Virginianus cæruleus, Sagittariæ folio. nobis. Sagittariæ similis, planta palustris Virginiana spicâ florum cæruleâ. D. Baster. H. Oxon. Sect. 15. p. 618. Tab. 4. Fig. 8. from Maryland and Virginia, South Carolina, where it Flowers in June and July, and is called by them Wake-Robin.

13. Baccifera Mariana, Clematis Daphnoidis minoris folio Mus. Petiver. 3634

Tab. 11. **C** Apicornus Norwegicus nigrescens, vaginus punctatis Fig. A. maculisque pallidis aspersis, from Norway.

2. Cantharus Marianus viridis perelegans, vaginus fulcatis, signaturis flavescens ornatis. This rare elegant Insect first discovered in Maryland.

3. Papilio Marianus fuscus, arcâ marginali oculatâ, from ditto.

4. Musca Africana flavescens, caudâ trifidâ, alis nebulosis, caught at Cape Mount Serrado near Guinea.

5. Anagallis Mariana lutea, foliis latis stellatis. This elegant Plant is distinguished by its broad Leaves, there being another sort which I have seen from those Parts with more, and much narrower.

6. Schœnanthus Avenacens protumbens Madraspatanus Beupleuri facie Mus. nost. 5770 The heads of this Camels-hay are much smaller and shorter than any other Species I have yet seen, as are its Leaves and Sheaths.

7. Gramen Lagopoides Guineense, spicâ longa nutante Mus. nost. 238. This Grass has Spikes upright, bending while young, from Cape 3 Pontas on the Coast of Guinea.

8. Ilcis foliis exiguis Frutex Orientalis Mus. nost. 250. This Shrub has elegant shining Leaves, from Suratt.

9. Erica Promont. Bonæ Spei floribus albidis staminibus rubris Mu. Nost. 635, known by its cottony heads with short red stamens, and smooth leaves distinguish it from Mus. nost. 765.

10. Erica carnea Promont. Bonæ Spei, foliis & floribus villosis Mus. Nost. 637, with Cottony Heads like the last, commonly green, and sometimes yellowish as if mouldy, from these heads proceed no stamens as in the other.

11. Papilio minor superne fuscus, inferne viridis, in the West

of England, Cambridge, and about London.

12. Scarabeus Alpensis parvus villosus, vaginis e fusco aureoque mixtis, from Aleppo.

Tab. 3. **L** Ibella Turcica major, alis Locustæ: The sprinkled Fig. 1. Clouds in the Wings of this Adder-bolt, are very dark, near to black, from Aleppo.

2. Phalena Mariana minor fulva, maculis nigris, albâ lineâ pulchrè aspersis. This elegant Moth from Maryland and Carolina.

3. Phalena Monspelica alba minor speciosa, maculis sanguineis nigresque aspersis. This rare and beautiful fly from India and Mompelien.

4. Papilio Guineensis nigrescens, lituris albis aspersis, from Cape Coast in Guinea. The Ground of its Wings are black above and rusty below.

5. Capricornus Capensis niger, fasciis Aurantiacis.

6. Locusta Capensis alis inferioribus luteis. This and the last from the Cape of Good Hope.

7. Erica Capensis Coridis folio, flore rubello.

8. Tomineio Mariana virens gutture flammeo. The Humming Flame-Throat. Ray Ornith. 167. 8. id. this beautiful Bird from Maryland.

9. Breyniana Cineroides Capensis nobis. Frutex cineraceus muscosus Breyn Cent. 24. c. 12. Fig. Tamarisci seu Myrica fortè genus Ethiopicum Pluk. Tab. 297. Fig. 1. Alm. Bot. 159. pl. 13. & Tamarisci seu Myrica fortè genus Ethiopicum, muricato fructu intus tomentoso Alm. Bot. 361. pl. 11. This, the next and Fig. 7. from the Cape.

10. Hippuris Coralloides carnea, Capensis, geniculis limosis.

11. Patella Indica compressa orificio magno ovali. East Indies.

12. Patella compressa, parva, exotica, orificio strictiori.

Tab. 4. **C** Cicada Capensis variegata, marginibus transparentibus. Fig. 1. Elegant Fly from the Cape of Good Hope.

2. Papilio Mexicanus nigrescens, lineâ lutescente arcâ miniacèa notabili Mus. nost. 515. Caught at La Vera Cruz.

3. Papilio Madraspatanus medius, flavedine & fusco mixtus, liturâ cæruleâ insignitus S. B. 5. 6. seu Act. Phil. No. 276. p. 1023. 6. This singular Butterfly from Fort St. George.

4. Adiantum Philippense, folio rotundo laciniato, sent Mr. Ray and me from the Philippine Isles.

5. Buccinulum album, lineâ sanguineâ spirale.

6. Stella Chinesis perelegans dupliciter radiata. S. B. 5. 1. seu Act. Phil. No. 276. p. 1023. 1, from China.

7. Capricornulus Orientalis viridis guttulis nigris, found on Ship-board in a Voyage from the East Indies.

8. Umbilicus Orientalis angustus ferratus fuscus, an Unguis odoratus CB in Matth. 246. c. 8. Fig. ? Matth. in Diosc. edit. Valgris. A. D. 1560 p. 181. c. 8. Fig. ? Lonicer. in Diosc. p. 96. c. 7. Fic. Bizantia Pomet. pt. 2. p. 97. Fig. Ovis Græg. Achfar ateb aut Adfar althab. Arab. i. e. Ungula aromatica Lat. Ongle aromatique Gal. Narrow Conk-lid, only one yet seen from the East Indies.

9. Umbilicus latus, fuscus. nobis. Blatta Pomet. pt. 2. p. 97. Fig. bonâ Bizantia Offic. Dale 549. 4. Purpura Loniceri in Diosc. p. 96. c. 7. Fig. bon. Chefont Oyster Mus. Reg. Soc. 141. Tab. 12. Fig. opt Broad Conk-lid. Parkinson p. 1574. c. 14. gives us Figures much resembling both these, and of this last 2 or 3 Varieties.

10. Cochlea Bengalensis ore lacerato, an Cochlea compressa variegata, lateribus acutis, senis minimum dentibus donata List. H. C. L. 4. S. 5. Fig. 31. Tab. 577. found in Bengal Bay.

11. Fungus Capensis subtus porosus, resembles our Rain-bow Mushroome, but underneath is poune'd like a Thimble. from the Cape.

12. Alga Spongioides Monspeulana viridis, from Mompelien.

Tab. 5. **C** Oncha Veneris parva undata, ventre maculato. Concha Veneris parva, ventre subluteo maculoso, dorso undatis lineolis ex triplice ordine depicto List. H. C. L. 4. S. 9. Tab.

Tab. 661. Fig. 5. It's easily distinguish'd, by its Waves and spotted Belly.

2. *Abrotanoides Capensis* Erica folio. This and Fig. 4. Mr. Starrenburgh sent me from the Cape.

3. *Echinus ovariis Barbadosis*, radiis quinque geminis venustè striatus Mus. Petiver. 124.

4. *Breyntiana Capensis*, capitulis albis plumosis, only for its plumose heads this resembles Fig. 9. Tab. 3. Gaz.

5. *Unicornu Widenæ* nodosum & verrucosum. an *Buccinum fuscum*, nodosis striis distinctum List. H. C. L. 2. Tab. 122. Fig. 18. from Wida, Old Calabar.

6. *Linulum Carolinianum* humistratum Knawel facie. Goose Creek, S. Carolina.

7. *Lewisanus Capensis* Serpilli folio. This differs from No. 785. Musci nostri, in having its Leaves almost round, like Mother of Thyme.

8. *Onagra minima Madraspatana* Pimpinellæ acutiore folio. an *Onagra Americana* folio *Betonica* fructu hispido Inst. Rei Herb. 302. 6.

9. *Folliculena* seu *Folliculum Phalenæ* ovale, appendice annulo terminante & *Madraspatana* S. B. 3. 11. seu Aët. Phil. No. 271. p. 860. 11. The Ring-Coffin. This and the last Mr. Edw. Bulkley sent me from Fort St. George.

10. *Xeranthemum Capense* Tartonraire folio, altogether new and elegant Plant with the next, from the Cape.

11. *Genista tinctoria Capensis*, purpurea, foliis sericeis, an *Genista Africana* frutescens, foliis Tartonraire, fl. purpureo Odenl. inst. R. H. 644. 10?

12. *Stratiotes quadrifolia* Lujulæ facie. an *Lemma Theophrasti* Lugd. 1014. c. 11. Fig. an *Lens palustris*, altera C. B. in Math. 783. Fig. 2. Lac. Lugd. 1015. Fig. 2. Lent palustris quadrifolia C. B. Phyt. Fig. 7. 1. I B. V. 3. l. 38. p. 777. Fig. Chabr. 566. Fig. 3. Park. 1262. Fig. 2. Lente palustre Durant. app. Fig. an *Lenticula palustris* quadrifolia C. B. 362. 4. palustris tetraphyllos I B. prodr. 115. 2. palustris 2. Tab. an *Lenticula* alterum genus Cæsalp. From Wida in Guinea, which having single Leaves only, best agrees with the *Lemma Theophrasti* Lugd. 1014. From Fort St. George. I have received what I take to be the same in Branches which very well agrees with the other Figure of Lugd. p. 1015. and the other Authors abovementioned, I have not as yet seen an European Specimen, by which I should be better able to judge.

Tab. VI. **A** *Vis Mary-Landica* gutture luteo. The Mary-Land. Fig. 1. Yellow-Throat. This and the next from Mary-Land.

2. *Randia Mariana* procerior. nobis. *Planta Mariana* capitulis albis conglobatis Mus. Petiver. 668. *Mary-Land* Randall wort.

3. *Cupressus Chusanensis* Abietis folio, from *Chusan*, an Island near *Liamo* in China. The Leaves are triangular, carinated, stiff, and stand off from the Stalk, its Seed is brown and small, not much unlike Buck-Wheat but not so regular.

4. *Conophorus Capensis* foliis parvis obtusis, nobis. *Alypum* & *Premont.* Bonæ Spei foliis minimis Mus. Petiv. 604.

5. *Anguis Exotica*, fusca, dorso albis maculis aspersis. This elegant Snake I received from Bidloo.

6. *Musca Caroliniana* nigrescens, antennis magna plumosis, wonderful Fly from Carolina.

7. *Papilio Cartagenus* nigrescens, albâ lineâ prope extremitatibus alarum, from *Cartagena* in Am.

8. *Concha Veneris Emuyaca*, albida minor levis, circulo croceo S. B. 5. 34. seu Aët. Phil. No. 276. p. 1028. 35. where I have given you other Synonyms and its comparative Difference.

9. *Papilio Angolensis*, margine pulchre oculata. this elegant Fly from Angola.

10. *Balanus Chinenis* cristatus nobis. an *Balanus compressa* & squammata Mus. Regal. Soc. 149. an *Balanus Rond.* aq. c. 29. p. 28. Fig. 2. Glans de Mer. Rond. Galic. c. 25. p. 21. Fig. 2. Scaled Centre Shell Mus. Regal. Soc. Tab. 12. Fig. 6? from Emuy and Chusan.

11. *Jacea Capensis* Gnaphalii folio. an *Jacea Ethiopica* Stæchadis citrinæ majoribus tomentosis foliis, capitulorum spinis & squammulis ex aureo colore nitentibus. Alm. Bot. 196. 6. Tab. 302. Fig. 3?

12. *Papilio Caroliniana* nigrescens maculis luteis. this Butterfly from Carolina.

Tab. 7. **G** *Naphalium Capense* spicatum, Alyssi foliis. sent by Fig. 1. Dr. Fred. Ruysch, Professor.

2. *Parietaria Canariensis* foliis serratis factus lano ginosis, from the Canaries.

3. *Argyrocome Capitis Bonæ Spei* Thymi foliis Mus. 144.

4. *Argyrocome Virginiana* Atriplicis folio nobis. *Conyza Virginiana* Halimi folio Inst. Rei Herb. 457. 7. *Elychryso* affinis *Virginiana* frutescens foliis Chenopodii glaucis Pluck. Tab. 27. Fig. 2. Alm. Bot. 134. pl 12. *Pseudo-Helichrysum Virginianum* frutescens Halimi latiori foliis glaucis H. Ox. Sect. 7. p. 90. Tab. 10. Ser. 3. Fig. 2. No. 4. & Tab. 17. Ser. 3. Fig. ult. *Senecio Virginianus* arborefcens Par. Bat. 235. Fig. & Desc. *Senecio* frutescens *Virginiana* Atriplicis folio Ray 1799. 14. and 1861. 6. in Flower, in the Bishop of London's Garden at Fulham.

5. *Papilio Lusitanicus* oculatus & marmoreatus. The Portugal Grayling. Caught about Lisbon.

6. *Folliculena Caroliniana* & virgulis cooperta. This Caterpillar in the Woods in Carolina about July; these are fastened to a sort of Willow and guarded with little bits of Twigs like those I have observed on the *Phryganium* or *Caddis* in our Rivers.

A. 7. *Phalena Occident.* *Anglicæ* lituris ex aureo & argenteo mixtis.

A. 8. *Phalena Occident.* *Anglicæ* alba, signaturis nigris undatis. This, and Fig. 11. very rare, were first discovered in the West of England.

9. *Tomineo Capensis* major, capite luteo. This beautiful Bird from Riga, Berneo and the Cape, it has a very long Tongue, which it throws into Flowers as other humming Birds.

10. *Papilio Carolinianus* luteus, apicibus nigris, from Carolina.

A. 11. *Phalena Occident.* *Anglicæ*, virefcens, lineis obliquis albescentibus. This rare Moth from the West of England.

12. *Mucus Ceranoides Palmonis* comis digitatis, Orchili dictus Mus. Pet. 436. the same which grows in the Canary Islands and Ferro, on the Rocky Mountains where they call it *Oricelle* and the Arabians *Serth*, with which they give a fine Dye to their Spanish Leather Hist. Lugd. p. 175. lin. 13. from Palma one of the Canary Isles, says they call it there *Orchili*, and use it for Dying.

Tab. 8. **E** *Upatoroides Capensis* capitatus.

Fig. 1. *Perficula guttulis croceis* lineata. an *Buccinum Perficum* parvum, maculis rufis dense depictum List. H. C. L. 4. Sect. 11. Tab. 803. Fig. 10.

3. *Concha Veneris* parva, fulva, circulis albis. an C. V. parva, ventre & lateribus albidis, dorso subauro, albis majusculis & sphericis distincto List. H. C. L. 4. S. 9. Tab. 695. Fig. 42. Buff. Leopard Cowry.

4. *Rhinoceros Lusitan.* niger splendens vaginis striatis. an *Scarabeus Rhinoceros* 3. Aldr. Insect. 451. Tab. 2. Fig. 3. id. Fr. 179. col. 1. Tab. p. 178. Fig. 3. The Beetle Figured on the Right of the *Cervus volans* in Imperatus, p. 694. from Lisbon.

5. *Capricornulus Norwegicus* vaginis marmoreatis, antennis brevibus. This and Fig. 9. from Norway.

6. *Scarabeus Capensis* pilosus vaginis rubris, plurimis punctulis albis aspersis. This elegant Beetle from the Cape.

7. *Phalena plumata* permaxima Orientalis oculata Mus. Petiver 729. Goliath, from the Straits of Suinda.

8. *Capricornus Russicus* cinereus, cornibus longissimis. *Scarabeus* 7 ex Russia Moss. 151. Fig. id. Angl. 1007. Fig. and 1003. Defer. from Muscovy and in London.

9. *Curculio Norwegicus* niger, signaturis, flavescens aspersis.

10. *Perficula lineis croceis* circumdata. an *Buccinum Perficum* parvum, fasciis rufis dense depictum List. H. C. L. 4. Sect. 11. Tab. 803. Fig. 9? This has Lines instead of Specks, in which it differs from Fig. 2. above.

11. *Cimex fuccinatus* pedibus alisque nigerrimis.

12. *Filago Capensis* minor spicata. This has the face of our English Cudweed but much less.

Tab. 9. **T** *Estudinus Philippensis* luteus, nigro maculatus.

Fig. 1. The Luzone Turtle Lady, I thus call it to distinguish it from Fig. 3. in the next Table.

2. *Aurelia* & *Brucago* Ejudem, after the Designs the Rev. Father Camelli sent from Manila.

4. *Buccinum dentatum* Mediterraneum, stris fasciatis maculatum. an *Buccinum dentatum* parvum, leviter striatum variegatum ventrosius List. H. C. L. 4. Sect. 11. Tab. 823. Fig. 42?

5. *Papilio Angolensis* ex pullo alboque mixtus, from Angola.

6. *Alga tabulosa* albida navibus adhaerens. This I found plentifully growing to a Ship's Side in the Thames.

7. *Concha Veneris* minor, maculata & oculata, nobis C. V. parva, latiuscula, paululum gibbosa, ventre maculoso dorso, fusco & albis innumeris & paucis nigris punctulis depicto List. H. C. L. 4. S. 9. Tab. 696. Fig. 42.

8. *Cato Simius* volans Camelli. The Flying Cat-Money. See its Description in the P. Trans. No. 277. p. 1065. This strange Animal is found in the Philippine Isles, its usual Abode is on Trees.

9. *Balanus compressus* albus, sex fissuris sulcatus, nobis Aët. Phil. 255. p. 10. This odd Shell from the Isle of Ascension.

10. *Papilio albus* Angolensis apicibus minaceis, from Angola, and Wida.

11. *Papilio Capensis* flavescens variegator, apicibus nigrescentibus. This singular Fly from the Cape, the ground of its Wings are yellow, varying with a Philamot bluish, if at a certain Position between you and the Light.

12. *Tipula Londinensis* angustissima. This I have observed on some Ponds about London. It's much slenderer and less than the common Water-Spider.

13. *Tipula Hamstedensis* brevior, ex croceo variegata. I have as yet met with this only in some Ditches about Bed-ize.

14. *Alga verrucosa* Capensis.

Tab. 10. **M** *Elilotus Suratenis* minimus.

Fig. 1. 2. *Hemipharicus Luzonicus* luteus, nigro insignitus. Here are represented the different changes of this Cow-Lady, after Father Camelli's Designs.

3. *Anguis Capensis* tricolor. The back of this is red, the Sides yellow, and the Spots black. I figured this from a Painting from Riga.

4. *Scarabeus elasticus* major *Americanus*, capite bimaculato. Aët. Phil. N. 246. p. 396. 13. and *Scarabeus colore griseo*, scapulis binis, quasi oculis nigris, mollitie pubescentibus notatus Aët. Phil. No. 271. p. 812. 32. The Velvet-eyed Virginia Snap-Beetle. See its Description with Mr. Panister's Remarks and mine in the two aforesaid Places.

5. *Pericopodes* argentea, maculis nigris.

6 *Papilio Sulphureus*, lunulis caeruleis, nigris lituris insignitus. This exactly resembles our English Brimstone Butterfly *Mus. No. 1.* were it not for those black spots, and apparent blue Moons in the lower Wings. This is the only one I have yet seen.

7 *Coccothraustes Capensis* ruber, rostro hians, è *Picturis* D. Krieg. The Cape-Cardinal. This in colour and shape resembles the Virginia red-bird or nightingale, in Mr. Ray of birds p. 245. Tab. 4. Fig. 2. But what is peculiar to this is its cleft bill.

8 *Euccinulum fluviatile heterostrophon*. I have met with these in some ponds and ditches about London.

9 *Papilio Surinamensis caudatus minor*, verruculis ex aureo argenteis, subtus eleganter aspersis. This butterfly with Fig. 6. lately received with 3 or 4 other Surinam flies.

10 *Muscus Scoticus Corallio incrustatus*. Got in a fresh river near Clackmannan on Forth a few miles of Stirling.

11 *Planorbis minor fluviatilis acie acuta*. *Cochlea fusca limbo circumscripta* List. H. C. l. 2. Tab. 138. Fig. 42. *Cochlea fusca altera parte*, planior & limbo insignita, 4 spirarum L. A. Angl. Hist. p. 145. Fig. 27. I have observed this in several little rivers about London.

12 *Coralloides Philippensis caerulea punctata*, from the Philippine Isles.

DECAS SECUNDA. TAB. XI.

FIG. 1. *Lichen Madraspatanus Algoideus*, marginibus verrucosis.

2 *Luffa Malabarica reticulata*, fructu decorticato. This is the peck'd or decorticated fruit of the *Picinna* Hort. Malabar. Vol. 8. Tab. 7. pag. 13. I have given the synonyms and virtues of it in the P. trans. No. 277. p. 1061. pl. 239. from Persia.

3 *Cochlea oblonga striis flavicantibus nigris*.

4 *Nerita Bardadenfis* instar plumæ eleganter maculata, a very beautiful shell, varies much in colour and spot.

5 *Euccinulum Madraspatan* edentulum, è nigro alboque fasciatum.

6 *Planorbis pulchre undata*, ventre elato altido. an *Trochilus planus* subfuscus opere quodam vermiculato, ex toto depictus List. Hist. Conchyl. lib. 4. Sect. 8. Tab. 651. Fig. 48.

7 *Myrtus Guianensis* Epimepsili folio.

8 *Papilio Luzonicus maximus nigrescens*, maculis coctineis subtus perbelle notatus S. B. 6. 6. seu æt. Philosoph. No. 277. p. 1066. 6. where you may see it described. This is a large and very beautiful insect, and is distinguished from others by its deep scarlet spots which in the figure are express'd in white.

9 *Papilio minor fuscus*, subtus striatus. The hair streak. This being brown both above and below, perhaps differs only in sex from Mr. Ray's purple-streak *Mus. No. 319.* which is purple above and much paler than this beneath.

10 *Papilio minor fuscus*, duplici lineâ inferne præditus. The brown double streak. This and the last are very rare flies!

11 *Papilio minor fuscus*, campo aureo lineâ geminâ subtus ornatus. An Hoef. Tab. 12. Fig. 1. The golden brown double streak. This and the last may be male and female. Caught Aug. 31. 1792. near Craydon.

12 *Ornithopodium Madraspatan*, Bupleuri folio. this with Fig. 1. from Fort St. George.

Tab. 12. *Proscarabeoides Capensis*, singularis, peditus plumosus. This very odd insect with Fig. XI. from Dr. Sherard's cape paintings. The legs, head, shoulder and sides of a fleshy colour, the middle of the back yellow.

1 *Tetradinaris Hamstedensis* tetramaculatus, observed but once in Cainwood near Hampstead.

2 *Tagetes Chinensis* fol. undulatis, A. duplici, rad. Cordati. Herb. No. Chin. Tab. 27. Fig. 3. This is that wonderful plant in P. trans. No. 289. pag. 100. the Chinese value it from Ten Tacl to one or two thousand a single root according to its bigness. Each Tacl is reckoned at about 6s. 8d. By drinking its infusion for some time they assert it prolongs life, and turns grey hairs into black. An odd tradition of its first discovery is related in the said transaction.

3 *Auris indica* non perforata.

4 *Bombyx Lusitan*, è nigro caerulecente, from about Lisbon.

5 *Scarabeus impennis rotundior Capensis*.

6 *Concha Ven. parva*, undata, apicibus nigris bimaiculata.

7 *Papilio Surinamensis* ex aurantio nigro luteoque mixtus, from Dr. Ruysch.

8 *Accipitrina Livornica* perbelle striata, from Lisbon, caught flying about a candle in October 1698. its Eyes, whilst alive, are like rubies. It frequents the Jafmin flowers.

9 *Papilio è fusco & albo eleganter mixto*, à Promontorio Tri-cuspitate. Caught at Cape tres puntas on the coast of Guinea.

10 *Araneoides Capensis* fasciata, lutescens, pedibus è nigro maculatis. The body whitish, but the swaths about it, and the legs yellow, the last spotted with black.

11 *Gris Capensis* caudâ cristatâ. The bill of this beautiful crane is partly yellow, his crest and eye lids red, that part of his head above and below his eyes blue, as are the edges of the feathers on his body, the rest white, the feathers of his tail, (if rightly painted) are alternatively red and blue.

Tab. 13. *Papilio Jamaicensis* è fusco lutescente, subtus virescens. Fig. 1. *P. croceo mixtus*, nobis. Baker insect. Tab. 1. Fig. 8. Dorf.

2 *Scorpio Javanicus* major pilosus, è nigro caerulecente splendens. nobis. Scorp. Zeylanicus niger maximus *Mus. Sibbald. Sc. 116.* *Indicus niger*, magnitudine *Cancerum* fluviatile æquans *Mus. Leyd. 14. id. min. 56.* *Ghoniſſa* Zeylon: an S. è *Barbaria* Moss.

205. Fig. 204. & append. p. 330. ad. cap. 10. id. A. 1049. an Sc. de Tunisi *Mus. Cospian.*

The accurate Swammerdam in his history of insects edit. Lat. p. 147. Tab. 6. gives a figure of one somewhat like this, but bigger, and seems particularly to differ in having but three joints in the tail, and ours five to fix as the lesser have.

Bontius in his Hist. Natur. & Medic. lib. 5. cap. 4. p. 36. seems to mention this, where he says *Scorpiones quoque copiosos & grandes fert hæc India (i. e. Java) vidi enim qui partem quartam ulnæ implerent, coloris è nigro cyanei & splendescente*, which shining and colour this has, from Fort George and from the coast of Guinea.

3 *Scolopendra Capensis* major lutescens, caudâ longiore.

4 *Lichen viridis foliis dense stipulis, extremitatibus bifidis vel trifidis*, about Tunbridge.

5 *Scarabeus Alpenſis* pilosus viridis, lineis albicantibus punctatis, from Scanderoon, caught Apr. 28. 1690.

6 *Scarabeus Gallicus* è nigro croceoque mixtus, f. *Cruciat* minor, observed about Paris.

7 *Locusta-Talpa Capensis* pedibus longis. This comes next of kind to our *Gryllo-Talpa*, or Mole-Cricket, but its Feet are longer, and the body partakes more of a naked locust, or large Grasshopper. It's painted with a mixture of ash and dark, or dirty colour.

8 *Tellina Madraspatana fasciata & undata*. an *Tellina latior fasciata & undata* quadam pictura conspicua List. H. C. l. 3. Tab. 378. Fig. 221.

9 *Scarabeolus niger* nostras supra aquam velociter circumnatis. The Water-Flæ.

I observe this very common all Summer in most ditches and grassy ponds about London; it swims on the water very swiftly in quick turnings, and somewhat circular motions, generally several together.

10 *Vespa Virginiana* impennis, ex nigro rubroque mixta Act. Phil. No. 271. p. 808. This wingless wasp I have had from Virginia, Maryland, and Carolina.

11 *Cercopithicus Lyzoni* minimus D. Camel-Magu vel Boot Indorum. This feeds on the Prickly Pear, and other Fruit, it rarely appears in the day time, whence its thought to be dim-lighted. When it suckles its young, it ties it to its body, as express'd in the figure, with the twigs of a twining plant call'd Pamago.

12 *Nerita Jamaicensis* ex albo nigroque tessellatus an *Nerita* profunde sulcatus ex albo nigroque variegatus paucis & exiguis dentibus ad columellam, ad rostrum multis & longa ductis List. H. C. l. 4. S. 6. Tab. 597. Fig. 9. This pretty shell is on the shores of Jamaica and Barbadoes.

Tab. 14. *A. Splenium Philippense*, foliis aduncis, viminibus adnascens: *Polypodium falcatum Cameli*. *Focales* Indis. This adheres to trees by its hoary fibres, as our Virginia creeper does to walls by its tendrils.

A. 2. *Numisma Inaugurale Anna Regina Brit.*

A. 3. *Phalena minor* nostras fulva, alis limbo nigro insignitis. I never but once observed this Moth, viz. May 3. 1696. in a broom-field by Sir W. Hicks's wood, Hackney Marsh.

A. 4. *Musca oblonga* nostras nigra, on Hedges April and May.

5 *Phalena plumata Mariana*, caudata, virescens, oculata *Mus. Petiv. 733.* This elegant moth from Maryland, Chusan, and Fort St. George.

A. 6. *Lichen arboreus* albescens, segmentis cornigeris, subtus aterrimus, from Norway and Tunbridge.

A. 7. *Cimex niger* nostras, albo maculatus, an List. in Goed. app. Tab. 5. *Scarab. Angl. Fig. 8?* I have seen it in the Spring on sunny banks.

8 *Lacerta Mariana* undata, subtus caerulea. This is a rough scaled lizard, with blackish waved lists on the back, blue on the chin, and each side of the belly, from Maryland.

A. 9 *Papilio oculis nigris*, subtus manoreus *Mus. Petiv. 307.* The Tunbridge Grayling. Very rare about London.

10 *Trochus fasciis verrucosis* è nigro albo nigroque alternatim perbelle distinctus. an *Trochus dentatus* ruber nigris punctatis feratini distinctus List. H. C. l. 4. S. 8. Tab. 637. Fig. 25. an *Cochlea Pharonia*. *Piscatoribus Maris Rubri Mus. Cospian. Bonan. 141.* Fig. mag. p. 1222. 3. per Microscop. aud. an *Umbilicus varius Rond. aq. 104. c. 39. Fig. id. Gall. 700 c. 23.* *Venus Bugle.*

A. 11. *Papilio croceus*, apicibus nigricantibus *Papilio 5. Moss. 160. Fig. Dorf. & Lat. id. A. 968. Jona. Insect. p. 41. Tab. 6. Fig. 5.* an Hoef. Tab. 9. Fig. 6. The fastron butterfly. I have observed this formerly, but its uncommon, and rarely met with.

12 *Puceros max. Rhinoceros niger, Boracicus* an *Scarabeus Bucerus Nasicornis* 1 *Hoang Lazon*. *Cameli.* This elegant large Beetle, from Berneo.

Tab. 15. *L. Bella Mariana media compressa*, corpore caeruleo. Fig. 1. *L. fcente*, nibibus latis medio alarum. This, and the next from Maryland.

2 *Libella Mariana media*, corpore flavescens, triautilata I take this, and the last to be Male and Female.

A. 3 *Byssus aureus Derbentis* humifusus. This elegant Moss from the Peak of Derby, in a lane joining to the field where the marvellous Stones are, about two miles from Eldenhele on the way from thence to Buxton-Wells.

A. 4. *Fungellus gramineus Northamptonensis*. Dr. Sloan observed this little Mushroom springing from the leaves of dead grass,

grass in September, on shepherds-hill near Althorp, the seat of the Earl of Sunderland in Northamptonshire.

5 *Concha Veneri* affinis, albus, medio annuloso. Concha utroque latere se colligens exotica Col. Purp. c. 20. Fig. p. 36. Concha cujus medio velut annulis circumjicitur, List. H. C. l. 4. S. 9. Tab. 711. Fig. 64. an Bonan. 145. Fig. 249. f. p. 162. Fig. 339? Common in Jamaica & Barbadoes.

6 *Lacertus Guineensis* major, verruculis, nigris albisque venustè obfistis. A harmless and very beautiful lizard found in Guinea where they call it Pompon.

7 *Cicada Turcica* media, in Chio and the neighbouring isles, where they sing on trees.

8 *Nerita Jamaicensis* alba, parva, striis castaneis. an *Nerita* exigua nigrolineus, ore subercoeo. List. H. C. l. 4. S. 6. Tab. 605. Fig. 31, with many more from Dr. Sloan.

9 *Papilio Carolin.* *Austantiacus*, maculis albis, limbis & venis nigris, fasciæque singulari ala inferiori cincta, from Carolina.

A. 10 *Scelopendra* parva terrestris tardipes, juncturis bipeditibus.

11 *Rhombus fasciis* ex albo nigroque catenatis, an *Rhombus* cylindro pyramidalis, lineis ex rufo alboque interjectis circumscriptus, clavibus paululum exserta List. H. C. l. 4. S. 16. Tab. 763. Fig. 12.

12 *Papilio Livornicus* superne nigrescens, inferne aureus, fasciæ albæ utrinque insignitus. The White Leghorn Admiral, first from Leghorn and London.

Tab. 16. **R** *Adix Viziagapatana*, fusca, fulcis rhomboidibus Fig. 1. Telle Melle dicta, this odd root from *Viziagapatan*. good against the stinging of serpents.

A. 2 *Gemma Turcia* in Hæmatite sculpta, from Smyrna. It represents an old man reaping corn.

3 *Unguis Madraspat.* fuscus, striatus, subtus, rubicundus. This figure shews the inside which is of a blush red, the outside is brown, and finely striated.

4 *Tavaracare Malabar.* fl. albo, folio Nerii latiore, nobis, Manga fructu venenato, osculo cordiformi, nucleo gemino Raji H. Pl. 1552. c. 20. Odallam Malab. Uro Bram. Hort. Mal. V. 1. Tab. 39. p. 71. Fl. Mal. 192. 1. id. Fol. I cannot believe with Dr. Syen the Commentator of this first volume, that this is the wild or poison mango as he asserts; for had it that deadly quality the experienced Malabars would have found it out, which they take no notice of.

5 *Tavaracare Madraspat.* minor, cortice tenuissimo. This is a smaller sort of *Coccus* de Maldiva found on the shores of Fort St. George. I take this to be the Fruit of the last Tree, the description of it in the Hort. Malab. cited under Fig. 4. very much agreeing with it.

A. 6 *Stella Hibernica* echinata. *Echinaster* seu *Stella coriacea* pentadactyla echina D. Lhwyd; an *Stella pectinata* Rondel. aq. 126. c. 12. Fig. 9, found near Slego in Ireland, and Bensans in Cornwall.

7 *Phalæna Chusan.* flava, signaturis nigricantibus. This singular moth, from Chusan in China.

8 *Stellula Hibernica* glabra. *Asteriscus* l. *Stella pentadactyla* exiguâ. *Canis marini* corio utrinque munita, found at Bohdrouse, in Donegal, Ireland.

9 *Chama Madraspat.* alba, undis castaneis, from Fort St. George.

A. 10 *Papilio Fritillarius* minor. Mus. nost. 324, about Cambridge, but rare about London.

A. 11 *Phalæna Canensis* nigrescens, quatuor albis maculis aspersa. This elegant moth I have caught in Cane Wood near Hampstead-Heath, but very rarely.

12 *Anguis Capensis* argenteus maculatus, streak'd with blewish silver, along which are many small spots.

Tab. 17. **R** *Etrochulus parvus* Italicus. an *Cochlea* alba umbilicata, limbo acuto circumdata, claviculâ omnino anâ compressâ List. H. C. l. 1. Tab. 64. Fig. 62. This is a small Trochus reversi, having its head flat and belly raised. Dr. Sherard found it about Rome.

2 *Phalæna Mariana* argentea minima, nigris maculis aspersis.

3 *Siliquastrum Rigense* Limacis cineri facie Mus. Pet. 843. This resembles our small slug, and like it, is whitish below, but brownish above, found about Riga.

4 *Buccinum Persicum* olivare. an *Buccinum* 7 orbium leviter umbilicatum, mediis orbibus paululum tumidis List. H. C. l. 2. Tab. 108. Fig. 1. from Persia.

5 *Simia Sciurus* lanuginosus fuscus, ex *Joannæ* insula. an *Cercopithecus Indicus* Bugee dictus Raji Synopsi Animal. 158. The wool of this is brown, soft and curled like that of a lamb, it has several properties of a squirrel, sitting often upright when it eats, which generally is done by his incisores, and reflecting his bushy tail. This strange creature is now alive (viz. May 1703.) at Mr. Dottins a druggist, who had him 12 months since from Joannæ. His Delineation by W. Cowper.

A. 6 *Cochlea* alba fasciata *Cantabrig.* umbilico parvo. an *Cochlea* alba leviter umbilicata, pluribus fasciis circumdata, claviculâ productiore List. H. C. l. 1. Tab. 59. Fig. 56, from New-Market-Heath near Cambridge.

7 *Phalæna Mariana* percruciata.

8 *Phalæna Mariana* pulchescens cruciata, a kind of the last, but the cross goes not to the edges of the wings.

A. 9 *Pectunculus minimus* lævis, intus argenteus, cardine ferratâ Mus. Petiver 841, Silver Cocle. On our coasts.

10 *Taggee Guineensis*, Radix forte tra generis. A root of a sort of Cyprus, has a thin skin, and eats as pleasant as an almond: from the gold coast in Guinea.

11 *Scarabeolus Marian.* exiguus, vaginis lutescentibus, striis nigris distinctus. Its Shoulders are yellower than the Sheath wings, its Horns very fine, long, black, and jointed.

12 *Phalænoides Apiformis Marian.* splendor nigrescent, argentes maculis eleganter aspersis. This singular insect, with the last, and Fig. 2. from Maryland.

13 *Filicula* è Gallipoli villosa, Asplenii facie, an *Lonchitis aspera* Ilvenfis Lugd. 1221. Fig. an *Lonchitis* folio *Ceterach* C. B. 359. 3. under which name he hath confounded four if not more plants together, sent by the name of *Ceterac*, there being some amongst it from Gallipoly.

Tab. 18.

F IG. 1. *Buccinum nigrescens*, maculis albis aspersis, ore giboso purpurascens.

A. 2. *Cochleola fluviatilis*, gyris alte incis. I have observed this in fresh water, and if I mistake not, in the New River.

3. *Phalæna maxima Chusan.* obscure fusca, marginibus eleganter undulatis. This large elegant Moth, from Chusan.

4. *Tellina parva radiata* intus omnino purpurascens. These are pretty common in Rock-work.

A. 5. *Buccinum Cornubiense*, è Castaneo & albo fasciatum, Dells Winckle: Lands-end, Deal and Dover.

6. *Sidereon* five *Serpentaria* mirabilis montana Kieg. Phyt. Curios. Fig. 213. *Berg-Slangen* Kruyd Belg. Munt. Herb. p. 754. cap. 330. This very odd Plant is said to grow on the mountains of Stiria and Hungary.

7. *Cardamomum Luzonicum* Coniforme Ticala dictum.

8. *Cochleola oblonga fluviatilis*, an *Cochlea* parva subflava intra 5 spiras finita List. H. An Angl. p. 135. Fig. 19. an *Cochlea* parva pellucida, operculo testaceo cochleatoque clausa List. H. C. l. 2. Tab. 132. Fig. 32. Oval, and not above half an inch long, I find them in the Thames and New-River.

A. 9. *Cylindrus lapideus* Byerleus compressior *Echini* facie, acetabulis majoribus oblongis, è puteis Carbonaris, found in the coal Mines near North Byerly Yorkshire.

A. 10. *Papilio Lincolnienfis* Fritillarius, fasciis subtus pallidis, The Lincolnshire Fritillary, near London.

A. 11. *Cylindrus lapideus* Byerleus compressior *Echini* latius clavii maximi facie, acetabulis rotundis è puteis Carbonariis R. Richardson; Observed in the same place with Fig. 9.

12. *Ostrea Ulyssiponenfis* minor rugosa; Lisbon Oyster.

Tab. 19.

F IG. 1. *Schistus Byerleus* impressis reticulatis, from Byerly Yorkshire.

A. 2. *Scarabeus arboreus* major Castaneus, the great brown-tree-chaffer, Goed. 178, Tab. 78, List in Goed. 265, Fig. 141, id. app. *Scarab.* Angl. Tab. 1. Fig. 1. an *Scarabeus arboreus* Moët. 160. Fig. id. A. 1014. Gr. V. 1 p. 9. Tab. 4. an *Hoef.* Tab. 16, Fig. 12, an Aldr. Insect. Tab. 5. Fig. 2, p. 453, id. Fr. 178 Jonst. Insect. Tab. 14. The Dorr or Hedge-Chaffer, Mus. Regal. Soc. 168, Very common all the Summer.

A. 3. *Phalæna Occident.* fulva, trifasciata.

4. *Phalæna fasciata* perelegans, extremitatibus ferratis an Goed. 155, Tab. 67. List in Goed. 81. Fig. 30. id. A. 58. The Fuscheloe, in Kent.

5. *Sagittaria Chinenfis* foliis ternis longissimis Herb. nost. China Tab. 12. Fig. 3. Sa heo chaw Indigenis.

6. *Ranunculus globosus Chimens.* fl. pleno Afrantiaco, Witung te hoa. Herb. nost. China Tab. 18. Fig. 18. This beautiful plant, would be a fine Ornament in our gardens.

7 *Calceolus Philippens.* pumila, Plantaginis folio rad. Alexipharmaca; an *Katsula Kelengu* Malab Capura Catari Bram. Hort. Malab. V. XI. Tab. 41. p. 81. Doso aut Dusu Luzonenfis; in Samar & Leyte Gozol. Sina Samlay & in Jucatan Scabalchau i. e. Reginam Plantarum vocatur. This Sovereign plant I have figured from a design of the Reverend G. Jos. Camel, from one sent to Mr. Ray and me, from the shady moist places on the dewy Mountains of Silan.

8. *Arbor Manilensis* Juglandis folio pentapetala, cortice Emético, Mananangtang Indigenis or Jail deliverer, aliis Tambal seu medicina de Carigara, ubi abundat. A Dram of the innermost or third Bark of this tree, is given in powder as a very successful Vomit in Fevers, ill habits, and the Dropsie; it also expels Poisons, and brings away Worms. I received this from the same hand, with the last, it grows plentifully in many places of the Philippines.

9 *Cylindrus Madraspat.* medio nebuloso, claviculâ carneâ, an *Rhombus ventricosus*, callosâ columellâ List. H. C. l. 4, S. 10, c. 13. Tab. 723, Fig. 10? This and the two next the Rev. Dr. G. Lewis sent from Fort St. George.

10 *Buccinum Madraspat.* nodosum, striis fasciatis,

11 *Tellina Madraspat.* triquetra, medio fasciata, extremitatibus tessulatis,

A. 12, *Etrochus Septentrional.* major compressus, Tab. 20, **N** Odiflora Manilensis *Onobrychidis* folio, Ruta Fig. 1. odorè; Rota Luzon, sylvestris spicata Camel.

2 *Amomum verum* Encalada, This is figured from a design which P. J. Encalada sent to Father Camel, from whom I had it. The Cassamunar very much resembles it, which I have given a Figure of in my third Decade, Tab. 37.

3. *Hemionitis Luson.* 1. f. H. minima vario and gratiofo studio Camel. It sports variously in its Leaves, and grows about a Span high.

4. *Trochus Indicus* è rubo & pallido radiatus, Brought me by Mr. Stocker from the Bay of Bengal.

5. *Macer veterum Raii*, Hist. Plant, 1779, c. 1. This strange and much desired tree, the Bramin Physicians call *Macre*, and the Malabars *Arbore de Sancto*, Avicen says the Arabians call the bark of the root *Talisafar*, and all the Indian Physicians use it with wonderful success in dysenteries, and other Fluxes, It's said to grow in divers parts of the East-Indies.

6 *Piscis Brasiliensis cornutus*. The American Toad-Fish. *Willughbelli* Hist. Piscium p. 90. c. 3. Tab. E. 2. Fig. 1. *Guaperva* Brasil Marogr. 150. Fig. Jonst. Pisc. Tab. 36. Fig. 6. p. 40. Desc. *Pira Utoewah* Laet Gal. 510. Fig. The Brasil Toad-Fish, found on the shores of Brasil. &c.

7 *Bagre Brasiliensis*, corpore maculato. *Bagre* 2 Will. Hist. Pisc. Tab. H. 7. sine descr. *Bagre* 4 Jonst. Pisc. Tab. 36. Fig. 4. p. 143. descr. *Bagre* alia species 1. ultima Marogr. 174. Fig. & descr. *Curui* 1. Pison. Ed. 2. p. 83. Fig. It's a very wholesome Fish, and found plentifully in Brasil.

8 *Carabus Bengalenfis* è cupreo virescens.

9 *Cochlea inversa*, dentato ore. *Cochlea variegata* 7 dentibus donata scilicet 2 in fundo oris & 5 ad labrum claviculâ inversâ. List. H. C. l. 1. Tab. 99. Fig. 100. *Cochlea* turbine antico. The Fore whirl'd Snail The Topple Turvy Snail.

10 *Cancer Agathensis testa variegatâ*, an, ex, 22. Tab. 6. Fig. 7. Tab. 7. Fig. 13. *Rondelet's* Marble Crab. This he no where observed but on the rocky shores of Agde in Languedoc.

11 *Cancer Lerinae Insulae chelis curtis sed cruribus longis*. Gesa. nom. ap. 207. Fig. 1. id. Hist. aq. 186. Fig. 2. id. Fr. 158. Fig. 2. The short clawed *Lerina* Crab, rarely met with, but on St. Honorat an Island called *Lerina* near Antibes in Provence.

12 *Lacertus squamosus minor setulis aspersis*, an *Demon Thebanicus junior* ad singulas squamas pilis instructus siue squamatus *Thebanicus* Musf. Leyd. Mas. N° 295.

DECAS TERTIUS. TAB. XXI.

FIG. 1. *Cathedra Naturalis*, è Radice *Theæ miræ* contexta for tea-root ad *Insula Chusan*. This wonderful elbow chair the New East India company presented to Lord Somers, who gave it to the Royal Society.

A 2 *Schistus Byerleus* quadrangulariter impressus.

A 3 *Cochinella Anglica* vulgarissima, seu rubra 7, nigris maculis notata. Hollar, inf. t. Pl. 7. Fig. 8. id. list in *Goe-dart* 268. Fig. 112 id. Angl. 108. N. 112, met with most part of summer.

A 4 *Cochinella Anglica* bimaculata, s. minor rubra, found with the last, but more rare.

A 5 *Cochinella Occidentalis* o longa, rubra, tetramaculata. the only one I have yet seen.

6 *Cochlea Jamaicensis* depressa bidens. ex parte tantum: list, Hist lib. 1. Tab. 82. Fig. 87. an list. Hist. Animal. Angl. append. p. 45. Tab. 3. Fig. 1, 2, from Jamaica.

A 7 *Squilla lacustris minima*, dorso natante, in the Spring, in the ponds on the common between K. Henry's walks and Kings land, I have hatched them from the eggs.

8 *Phaeolus Madraspatanus* femine compresso nigro alboque eleganter striato, an *Chabr*, Icon, 140. Fig. 2. I. B. V. 2. l. 17 p. 267.

9 *Phaeolus Madraspatan*, minimus, Reniformis Bezoardicus. This and the last 2 beautiful Kidney-beans Mr. Bulkley sent me from Fort St. George.

10 The *Thea* Shrub is here figured with its leaf, flower and fruit, to accompany the root above at Fig. 1, I have given the various Synonyms of this in the P. Trans. N. 286. p. 1428. 92.

11 *Pateila Borneica* auriculata tenuis, This odd shell from Borneo.

12 *Stockerus Bengalenfis* viridis nigro maculatus, This is a new Genus of the Beetle kind, the Vagina not being split but intire, from under which it expands its membranaceous wings, as the figure expresses, which is its flying posture, Mr. J. Stocker, being the first that shewed me this Species, I distinguish it from other kinds by his name.

Tab. 22. **F** RUCTUS *Vixiagapatan*, globosus, hexagonus, Fig. 1. Cor-tice fusco, Good in violet Fevers, and takes away the blackness of the tongue, covered with a thin brown shell, which peel'd off discovers a smooth fruit equally divided into 6 part tions, each of these has a thick woody inclosure, containing in the center a Ricinus like Seed, lying in a large Bed.

A 2 *Lyra Harvicensis*, pinnâ dorsali longissimâ, maculis cærulefcentibus, taken about Harwich, and presented to the Royal Society.

3 *Zerumbet Officinarum* Dale Pharmac. p. 366. 9. F. Camel called this *Zerumbeth*, and others the Red Ginger of Ternate, by the Indians *Pangafam* and *Banglay*, the Malabar Wild Ginger, Hort. Malab. Vol. xi. Tab. 13. p. 27. and that of Zeylon, See a large description with its many uses, great virtues, &c. in the appendix to Mr. Ray's 3d. V. of plants.

A 4 *Scarabæus minor*, Filicinus an List Hist. An. Angl. app. Tab. 4. Fig. 3. *Bracken-Clocks*, So called in the North, because found on the *Brake*, or Female Fern.

A 5 *Curculio minor minimus*. I found this at Epsom the last Spring, in company with Dr. Lister and Dr. Breynius, Mr. Middleton Massey has observed it in December.

A 6 *Scarabæus agrestis oviparus*, *Melanocyaneus succo sanguineo*, the Bloody-Egg-Beetle. I have observed these of se-

veral sizes, and when taken they spew out a bloody Liquor, List. H. A. A. ap. Tab. 4. Fig. 14.

7 *Fox his Bengal Beetle*, body green, the round spots yellow, the others red with a yellowish border. Musf. nost. 706.

8 *Papilio Ind. Oriental. fuscus* margine cæruleo, subius *Mar-moreus*, an elegant Butterfly.

9 *Scarabæus pectinatus minor villosus*, the hoary Chaffer. List. H. A. A. ap. Tab. 4. fig. 2. hoary, and less than *Gaz.* nost. Tab. 19. fig. 2. rarely met.

10 *Trichylus Monspeulanus* exiguus, fasciatus, pyramidalis, List. Hist. Cenchril L. 1. Tab. 61. fig. 58. List. H. A. A. p. 45. Tab. 3. fig. 12. This elegant insect is frequent about *Mompier*.

11 *Buccinum Barbadosense* perelegans fasciatum, *Buccinum* 7 orbium fasciis fere bicoloribus, interdum tricoloribus Iridis instar depictum List. H. C. l. 1. Tab. 15. fig. 10. from Dr. Lister with the last.

12 *Schistus Byerleus* *Caucaloides*, these Ovals seem rough like the Seed of *Caucalis* or *Eastard Parsly*.

Tab. 23. **Z** Edoaria *Officinarum*, this the Indians call *Damogeanfi*, it very much resembles the *Gaidoar* or *Gedwar* and *Turnerick*, but is distinguished chiefly in its Leaves, this having a brownish streak along the middle of each, which the others have not. Ray Syllab. Camell. 23. 9.

2 *Porus Sporgioides Americana*, here are 2 varieties of this, which perhaps may be the same, the first or bifurcated flat one is purplish, both externally and in the middle, and many of its pores are deeply made, the other is roundish, pale without, except the spots, which are blackish, and rarely perforated, the inner pith like the last is purplish.

A 3 *Scarabæus rigeros*, niger, antennis pectinatis, an *Bouceros* vel *Taueros* Mosf. 152. fig. 2. id. Angl. 1008. on *Hampsted* heath in the Spring.

A 4 *Scarabæus spadiceus*, cornibus ferratis pediculis nigris an List. H. A. A. ap. Tab. 4. fig. 5? About Midsummer in the Physick garden at Oxon: also about London.

5 *Avicula Chinenfis* è cærulea, alba & nigricante mixta. Its Belly, Wing-shoulders, Collar, and about the Eye white, the rest blue striped with black; Back, Breast and Head, blue; this the Chinese paint in their Pictures, Skreens, &c.

6 *Spongia Barbadosensis* alba Corallii facie, This is perforated, some few large enough to contain a Cherry-stone, in which I have found small shells, and therefore I conceive made by them for their receptacles; the rest which it's full of, are but pin-holes, it may be blown through in any part, as you can through thin cloth, from Barbadoes.

A 7 *Capricornulus Norwegicus* scaber, costis nebulosis, from Norway, and Box-hill in May, an List. H. A. A. ap. Tab. 4. Fig. 8.

8 *Papilio Alpinus*, &c. Musf. Pet. 502. Mr. Ray's Alpine Butterfly, the 3 clouds next the body, and the 4 spots in the under wings are deep yellow, the Eye-spots sometimes reddish, the rest white and black.

9 *Mus araneus Capensis* maximus, taken from a Painting of Dr. Sherard's, now consul of Smyrna.

A 10 *Scarabæus Viarius* niger vaginis fulcatis, I met with 3 or 4 of these, April 24, 96. in the path between Bromley and London, 95. high Cain-Wood.

11 *Scarabæus Carnivorus* niger, vaginis fulcatis ac rugosis, less than the last, shoulders and sheaths rugged: I found them May the 3d. 1696. in the intrails of Pole cats and Weasils on Sir W. Hickes common near Hackney.

12 *Scarabæus pectinarius viridis*, elytris quasi fractis, the Rose Chaffer, an *Smaragdus* vel *Viridulus*, found amongst Roses in June and July.

Tab. 24. **C** *Hampacca Philippens*, flore ac fructu stellato, See Fig. 1. F. Camel's description of it in the ap. to Mr. Ray's 3d. V. of Plants, pag. 83. 2.

A 2 *Papilio Oculatus* è fusco aureo mixtus, umbrâ purpurascente, Mr. Dale's Purple Eye.

A 3 *Papilio Oculatus* è fusco & flavescente mixtus. the Enfield Eye, having observed several of them on that Chace, and elsewhere, but not common.

A 4 *Curculio major subcinereus undatus*, Mr. Dandridge gave me this large Beetle, found in the Spring about Greenwich and Woolwich in the Sand-holes of those Pits.

5 *Pectunculus lunulatus Americanus* fasciis alte elatis, List. H. C. L. 3. S. 4. Tab. 277. fig. 114? This shell has 6 or 8 high raised fasciæ, which take their beginning from the Heart-side, but are not so elevated on the other.

6 *Capricornus Americ.* &c. Musf. Pet. 708. The Campeachy Goat Chaffer, the sheaths of this elegant Beetle are white, finely streakt with gold and black, as if Japan'd.

A 7 *Scarabæus impennis tardipes*. The slow legged Beetle, Mosf. 139. fig. id. Angl. 999. I met with these in Cellars and old houses, it walks as if frozen, by which, and its having no membranaceous wings, it's easily known.

8 *Ninjin* & *Gensing Officinarum* Dale Pharm. 340. 11. Ray H. Pl. 1338. Pluk. 101. 7. copied from a Painting of the Royal Society, the Root is esteemed as a great Cordial and Restorative. It grows in Japan and China.

9 *Ranunculus Siculis* fol. rotundo vix serrato, Ray V. 3. ap. 248. R. 4. Dr. Breynius gave me this which he gathered in the Physick-garden at Amsterdam.

10 *Nasicornis Tauroceros Marianus*, splendens, Castanei coloris Terra Mariana Hist. nost. Natural. seu act. Philosoph. N. 271. p. 814. 45. Jones Mary-land Bull Rhinoceros, this of the comb-horn'd (i. e. antennis pectinatis) kind, and is very shining above.

11 *Capricornus niger Capensis* fulcatus, 6 albis maculis insignitus, a very elegant Cape Beetle.

12 *Sphondylus Barbadosis* parvus, altè fulcatus, from Barbadoes, it oft varies in its shape, the tips of its hinges are always brown.

Tab. 25. **P**halæna alba parva *Occidentalis*, signaturis marginibusque nigris, this pretty Moth from the West of England and the high chalky mountains near Ryegate Surrey, July 1703.

A 2 *Ichneumon minor*, zonis obscuris, this, the next, and fig. 10. I find in the Spring on several banks about London.

A 3 *Ichneumon minor niger*, zonis luteis, this is known from fig. 10. in having that part below the narrow waist black, with 2 small yellow girdles parted in the middle.

4 *Ranunculus Parisiensis* pumilus, *Plantaginella folio* Hort. nost. ficc. Ray V. 3. ap. 248. R. 3 from about Paris.

5 *Rana Caroliniana* maxima, voce Taurino, the American Bull Frog, this is that great Frog Mr. Clayton mentions in the trans. N. 210. p. 125. and which Lahontan in his North America, p. 242. calls lowing Frogs.

6 *Jacea Capensis* fol. parvo hirsuto capite viscoso Ray V. 3. ap. 245. L. 2 C. 63. from Dantzick.

7 *Conophorus Capensis* Pini folio Hort. nost. ficc. Ray V. 3. ap. 243. C. 63. this rare plant from the Cape.

8 *Tellinæ affinis Jamaicæ*, lunulata, cuneo productiore, from Jamaica.

9 *Pectunculus Americanus* cordatus, fasciis crassis, these fasciæ or Circles are thicker set, and nothing near so high raised as Tab. 24. fig. 5. from Jamaica.

A 10 *Ichneumon minor*, croceus, zonis luteis, this comes next fig. 3. but has an Orange list below the waist

11 *Capricornus Carolinianus* fuscus pallido aspersus, this singular Beetle from Carolina.

12 *Phalæna Occidentalis* coloribus & alis undatis, Glanvilles tipt-Furbeloe, receiv'd it from her.

Tab. 26. **O**nobrychis *Madraspat*, nummulariæ folio, Barbareæ siliquis Hort. ficc. Petiver, Ray Vol. 3. append. p. 247. O. 12. This is said to pod in March.

2 *Euonymus Capensis* spinosa Hort. nost. ficc. Ray V. 3. ap. 244. E. 33 *Euonymo affinis Æthiopica* spinosa, Lycii foliis & aculeis, fructu *Euonymi Pannonicæ* Clusii grandiorè Almag. Boran. Tab. 280. fig. 5. pag. 139.

3 *Phalæna Philippiensis* cinerea, maculis flavis, corpore zonis sanguineis intermixtis, Papilio polymitus omnium pulcherrimus Camell, fig. 26 insector. Mfs.

4 *Onobrychis Madraspat*, nummulariæ folio, Ornithopedii siliquis Hort. nost. ficc. Ray, V. 3. ap. 247. O. 13. this differs very little from fig. 1. but its pods, which are ripe in June.

5 *Araneus Luzon*, Bovinus, from the likeness of its Horns, standing almost straight.

6 *Araneus Luzon*, testaceus trilunatus, this is mixt with yellow and black.

7 *Araneus Luzon*, crustaceus, cornu lunulato, mixt like the last

8 *Araneus Luzon*, testaceus angustus trilunatus, this is not only narrower than fig. 6. but the spots tho' of the same colour, are differently placed: These 4 were copied from designs F. Camell sent me.

9 *Scarabæus Philippiensis* prasino-aureus, maculis luteo-albicantibus, Cantharis Luzon, Cetonia Prasino-aurea Camell, Mfs. The belly is of the same colour, but not striped.

10 *Solea Philippiensis* argentea, this is a flat edible Fish full of Scales, its 2 inches broad and a span and half long, Silvery above and brown below.

11 *Scarabæus Marianus* minor fulvus, maculis nigricantibus aspersis act. Phil. N. 246. p. 396. 9. (from Maryland which I have described in the said Trans.)

12 *Ranunculus aquaticus* Plantaginis folio angustissimo inst. Rei Herbar. 292. pl. 12 from Paris, where it grows wild, and flowers in July and August.

Tab. 27. **C**assamunier *Officinarum* Ray V. 3. ap. 243. Fig. 1. C. 21. from Fort St George.

2 *Olivaris striata* & fasciata, an *Cochlea alba* ventricosa bidens striis eminentibus exasperata List. H. C. 1. 4. S. 5. c. 7. Tab. 588. Fig. 47. this in length and thickness rather resembles Dr. Lister's fig. 49. but if it does, his twirls are much broader than ours, and seems fewer.

3 *Carpicornulus nigrescens Marianus*, undis & circulis flavescens striatus. act. Phil. No 246. p. 397. 20. The Maryland Wasp Beetle.

4 *Erica Hibernica* fol. Myrti pilosis subtus incanis Hort. nost. ficc. 244. E. 20. *Erica S. Dabeoci* D. Lhwyd Ray Dend. V. 3. p. 98.

30. *Frica Cantabrica* Flore maximo, foliis Myrti subtus incanis inst. Rei Herb. 603. 5. Elem. Botan. 475. from Ireland in the places Mr. Ray mentions.

5 *Papilio Philippiensis* cæruleus, maculis subtus rotundis & triangularibus.

6 *Papilio Philippiensis*, oculis 7 oblongis fimbriatus.

7 *Scarabæus oblongus niger Virginianus*, vaginis fulcatis, dorso plano nitente, act. Phil. 246. p. 396. 12. Marshal's Virginia Chaffer.

8 *Scarabæus Marianus* viridis Rhinoceratos act. Phil. N. 246. p. 395. 7. the Maryland green Horn-Chaffer, distinguished from the next in having horns.

9 *Scarabæus Marianus* viridis aceratos act. Phil. No. 246. p. 396. 8. the Green Maryland Chaffer, both common in Maryland and Carolina.

10 *Scarabæus Luzonensis*, elasticus, vaginis striatis, Dango Philippinitus, you have both sides of the Snap Beetle figured from Camell's designs.

11 *Rhombus albus fasciis flavis & mæandris alternatim perbellè depictis*, an *Rhombus* List. H. C. 1. 4. S. 10. c. 5. Tab. 786. fig. 35.

12 *Alga Philippiensis* carnosa edulis Goso dicta, it's transparent, yellowish, and of the consistence of Gum Tragacanth, Ray Syllab. Camell, pag. 42. 12.

Tab. 28. **P**apilio *Surinamensis* maximus, subtus perbellè oculatus Fig. 1. latus ac marmoreatus, I find it amongst Merian's figures of Surinam insects:

A 2 *Phalæna Sulphurea*, nebulis rufescentibus, seen about London, but not common.

3 *Scarabæus pectinatus Luzon*, aureo-smaragdinus.

4 *Rhombus Indiarum Orientalis*, spatiosis, catenis fasciisque flavis, cætera albus, List. H. C. 1. 4. S. 10. Tab. 780. Fig. 27.

5. *Capricornus Luzon*, ex atro & aureo mixtus, this elegant Beetle, with fig. 3. F. Camell sent me designs of.

6. *Avis Philippiensis* galea planâ, Calao Luzonensis, See an accurate description of this wonderful bird by F. Camell in the P. Trans. N. 285. p. 1394. 17.

7 *Papilio Luzon*, è fusco & luteo superne mixtus, this and the 2 next from the same hand with the last.

8 *Phalæna Luzon*, è fusco & albo utraq; parte conspicue maculatus.

9 *Papilio Luzon*, luteus marginibus atris.

A 10 *Trochites perelegans* Pyrite impressus, this elegant impression in a copperas stone from N. Byerly in Yorkshire.

11 *Mantis Mediterranæ*, rufescens media, caught in the Straights by Mr. Saml. Daniel, Surgeon.

12 *Operculum Indiarum Orientalis* superficie verrucoso, from the East Indies.

Tab. 29. **E**ryngium fortè *Mauritanicum*, spinosum folio angustissimo Hort. nost. ficc. Ray V. 3. ap. 244. E. 26. an *Bupleurum Hispanicum* fruticosum aculeatum Gramineo folio el Botan. 260. Inst. Rei. Herbar. 310. 16. from the Coast of Barbary. It's a very odd shrubby plant, and has somewhat the face of a Corruca? each joint is commonly armed with three woody strong Thorns, the largest in the middle; these stand alternately, like the Bambu, on a cross bended stock; from the bosom of these Spines comes 2 or 3 lefs, with as many long narrow leaves of the stiffness of Holly; on the edges are many little protuberances, like the first leaves of *Epiphyllanthus Jamaicensis*.

2 *Buceros Luzon*, nasicornis maximus [Bagang dictus Camell, Mfs. de Scarab. Philippiensis].

3 *Phalæna Guineensis* flava perelegans & pulchre oculata, this beautiful insect from the Guinea Coast.

4 *Araneus Luzon*, mortiferus Smaragdino aureus Banayant 1. Camell, Mfs. Aran. Luzon an *Araneus aureus* Niremberg, Hist. Nat. 291. c. 24. an Lavalava Hernand, Insect. Hist. p. 75. c. 28.

The Sting of this, if not cured by fire or a decoction of dauva, kills man and beast, these delight in the Sambach Arabum, or Syringa, and dwell in their twisted leaves.

A 5 *Scarabæolus Septentr.* vaginis aureis elegantè striatis, capite nigro, this with fig. 8. & 9. Mrs. Glanville sent me from the West of England, where he got them.

6 *Araneus Luzon*, ex argento, flavo & fusco pulchre mixto, pedibus nigris.

7 *Affacus Luzon*, cornutus echinatus, albo, luteo & cinnabarinè elegantissime variegatus, Banagan Philippiensis, Camell, Mfs. Piscium, Mollusc. & Crustac. Philippi. The design he sent me is as big again as this figure.

A 8 *Tæstudinarius* aureus guttulis nigris aspersis. I once saw this in a Meadow near Woolwich.

9 *Scarabæolus oblongus* aureus maculis 13 in vaginis ornatus, resembles our common Lady-cow, but is slenderer, and has 6 spots on each wing, one on the suture, the other has but three.

10 *Araneus Luzon*, torosus pilosus, totus fuscus: the designs of fig. 4. & 6. sent me from F. Camell.

11 *Cæcilia Born*, &c. Mus. nost. 106. The striped Snake of Borneo, this seems to be a familiar House-Snake, for Mr. Silvanus Landon caught him drinking in a Punch bowl, after a sudden return with some friends from it, in Borneo.

12 *Araneus Luzon*, gibbosus subfuscus, per totum dorsum protracto, elevato & flavo Camell Mfs. Araneor. Philippiensis. These lay whitish Eggs in yellow silken globular Bags.

Tab. 30. **P**ectunculus, &c. *Muscoviticus*, Mus. nost. 728. Fig. 1. Klem's Russia Muscle.

2 *Hirundo Luzon*, venenata ruberrima Bangel dicta. This wonderful Fish is red throughout: All its Flesh will in one Night

Night by hanging up dissolve into a florid red liquor, which they use in staining, and is very lasting. It's a span and a half long, and hath warts instead of scales.

3 *Concha Veneris carulefcens parva*, utroque capite bimaculata, ventre late ferrato, an C. V. Lift. L. 4. S. 9. Tab. 624. Fig. 20 this is always bluish, but varies in its spots and waves.

A 4 *Capricornulus Hampsted*, stramineus, signaturis nigris, this varies in its size, as in the figures, but is always bigger than the next, and more rarely met with: Caught in Bear-wood beyond Hampsted, Heath.

A 5 *Capricornulus Hampsted*, exiguus, vaginis rubent, apice nigro, I have observed these about Midsummer, on the flowers of Sphondylium or Cow-Parsonip, to whose umbells divers insects resort.

6 *Olivaris Barbadosis* vix dentatus, ex albo & Castaneo reticulatus, clavícula capulefcens an Lift. H. C. L. 4. S. xi. Tab. 827. fig. 49. b. Barbadoes Net-Olive, these are distinguished from others by their blue tips.

A 7 *Buccinum oblongum Avenaceum*, an *Buccinum exiguum* 5 anfractu, murene acuto Lift H. A. A. 4. p. 122. Fig. 7. These I found at the roots of old trees in Lord Wootton's Grove at Hampsted.

8 *Lapis Chinenfis* Mayz referens, the Mayz Stone, this elegant Stone very much resembles the grains of Turkey-wheat or Mayz, but these are alternately set, and not one directly over the other.

9 *Concha Veneris carulefcens parva*, utroque capite bimaculata, ventre fessile plano an C. V. Lift. H. L. C. 4. S. 9. Tab. 624. fig. 21? like fig. 31. but differs in having its belly smooth, and the mouth only toothed.

10 *Crotalaria Madraspat*, Pilosela folio Hort, nost, ficc, Ray V. 3. ap. 244; C. 194. from Fort St. George.

11 *Lens Madraspatan*, elatines folio Hort, nost, ficc. Ray V. 3 append. 246, L. 8. yellow flowers, lonely and with stalks each coming from the bosom of its leaf, and are succeeded by a small flat lentile like pod.

12 *Argyrocome Capens*, fol. incanis lobatis, Chrysocome flore albo, foliis subrotundis auriculatis Capitis Bonæ spei. Breynij Prodr. 2do p. 33. 3.

DECAS QUARTUS. TAB. XXXI.

FIG. 1. Calao avis rostrum rubrum, galeatum, casside lata, Under this title, F. Camel sent me this design with his manuscript of Philippine birds, in the Philo. trans. N. 285.

A 2 *Cantharis azureus* perelegans, found about houses.

A 3 *Scarabæolus aureus*, capite nigro.

A 4 *Scarabæolus aureus*, capite lineisq; nigris.

A 5 *Planorbis hortensis minima* pulchre striata, *Cochlea terrestis compressa maculata & leviter striata* Lift. Hist. Conchyl. app. Tab. 4. about London.

6 *Inhame Madraspatan*, foliis binis pulchre venosis Hort. nost ficc. 11. 19. seu Ray Hist. Plant vol. 3. append. 246, the leaves of this beautiful Plant, are the most elegantly veined I ever saw.

A 7 *Scarabæolus niger*, lateribus apicibusque vaginarum aureis, found floating in a ditch in Eihops Wood, Hampstead Heath.

8 *Coralloides epispungiosa Philippensis*, virgulis dilute purpureis, minoribus punctis. Philipp. Submar. Catal. 14. seu act. Phil. N. 286. p. 1421. 14.

9 *Pectunculus Veneris*, *Pectunculus ruber fasciis acutis & ex altera parte muricatis exasperatus* Lift. H. C. Lib. 3. Sect. 1. cap. 3. Tab. 307. fig. 146.

10 *Echinus perexiguus*, *Echina omnium minima*, Aldrovand, Test. 412. fig. id. edit Francof. Tab. 10. fig. 23. p. 136. I take this to be an indigena on our coast, finding them amongst a parcel of English shells.

11 *Blitum Madraspatan*, *Parietariæ folio*, spicatum Hort. nost. ficc. B. 28. Ray H. Pl. vol. 3. ap. p. 242.

12 *Coralloides epispungiosa Philippensis* virgulis paucioribus punctatis, Sanguinei coloris, Philipp. Submar. Cat. 16 S. act. Phil. N. 286. p. 1421. 16. Specimens of this and figure 8, with several other very curious submarines, mentioned in that trans. and figured hereafter, from the Philippine Isles by F. Camel.

Tab. 32. R ETE *Philippense* nigrum, telis quadrangulis duplicatis Phil. Submar. Cat. 2. s. A. P. No. 286; p. 1419.

2 *Cochlea Luzonica* pallida, fasciâ nigricante.

3 *Alcyonium Philipp*, ramulis gelatinis implexis Phil. Submar. Cat. 8. s. act. Phil. N. 286. p. 1420. 8. This is a very odd Submarine as is fig. 1. in said transaction.

A 4 *Phalæna cinerea splendens maculata*, This differs from fig. 8. below, in being larger and shining, and is not so common.

5 *Papilionoides Caroliniana* fusca, signaturâ aureâ pellucidâ, subus albidâ. This is a new Genus of exotick insects (of which I have several sorts) its peculiarities are a thick and short mothlike body, its Horns turgid near the end but hook-pointed, and most of them have generally greater or lesser transparent coloured spots, it participates of the Butterfly and Moth.

6 *Papilio Livonicus* è fusco carulefcens, subus maculatus from Livonia.

7 *Phalæna-bombylus Carolinanus* maximus ferrugineus This is another new Genus of insects, approaching next to the Hawk-moths;

these suck their nutriment on the wing like the humming birds; are generally feather tail'd, and have a colourless transparency in the midst of their wing.

A 8 *Phalæna minor alba*, maculis nigrescentibus ornata, an Goed. vol. 3. Tab. 13. p. Lift. fig. 61. This appears about Midsummer generally amongst Nettles.

9 *Concha Luzon*, tubularis, virescens. The Natives in Luzon call this Belay & Udpan, and the Spaniards there Bo a de pato, i. e. Ducks-bill from its shape. This I figured from a shell F. Camel sent me.

10 *Agrimonia Madraspat*, folio rotundo singulari, subus incano Hort. nost. ficc. A. 44. Ray Hist. pl. vol. 3. app. 241, at the setting on of the leaves its commonly attended with small tender auricles,

11 *Potamogeton Madraspat*, Phyllitidis folio pulchre venoso. Hort. nost. ficc. p. 65. Ray vol. 3. app. 247. The veins on one side something resemble those of Tab 31. fig. 6.

12 *Leonurus Madraspat*, foliis rigidis, parvis, hirtis Hort nost ficc. L. 10. Ray vol. 3. app. 246. this differs from act. Phil. No 244. p. 323. 21. in being a smaller plant, hoary, the leaves less shorter and stiff.

Tab. 33. L ENS *Madraspat*, Nummulariæ folio maculato Fig. 1. Hort. nost. ficc. L. 9. Ray v. 3. app. 246. very remarkable in its leaves and spots.

2 *Papilio Lufitan*, minor, ex aureo fuscus, subus maculatus & virescens, Lisbon.

3 *Scarabæus Marianus*, minor satvus, maculis nigricantibus aspersis Hist. Maryland, s. act. Phil. No. 246. p. 396. 9. This resembles our common English Lady-cow, but hath much larger spots, as that at table 26. fig. xi. has much less, and by mistake was there put for this. Whereas that should have been called *Scarabæus stramineus minor Marianus*,

4 *Thea Chinenfis* Pimentæ Jamaicensis fol. fl. Rosaceo simplici. Chusan. Plant. Hist. pl. 93. s. act. Phil. No. 246. p. 396. 93. Where you may see its Description.

5 *Papilio Bella donna dicta, Virginiana*, oculis subus majoribus, this chiefly differs from our English painted Lady Musci nost, 326, in having larger eyes underneath.

A 6 *Phalæna Umbrica* lineâ maculisq; sanguineis an Lift. fig. 54. This Moth produces a Catterpillar very common on Ragwort.

7 *Phalæna Guineensis* alis è nigro aureis, corpore elegantissime zonato, its body is girdled with Gold, Silver, Scarlet, Black and changeable, so beautiful I never yet in that part saw its like

8 *Androsace Chusan*, *Cortusæ Matthioli folio* Mus. 858. I take this elegant plant to come next of kind to *Linum Umbilicatum*, which Tournefort calls *Omphalodes*.

9 *Cantharis Carolin*, niger, undis pallescentibus infect, Virgin. Obs. No 36. s. act. Phil. No 271. p. 813. 36. of the Family of our Green, Golden-spotted *Cantharis*.

A 10 *Phalæna nigrescens maculis minoribus*, subus sanguinea, The Scarlet Royal Leopard.

11 *Papilio Carolin*, fuscus, subus cinereus, margine eleganter oculato, from Carolina.

A 12 *Phalæna nigrescens*, maculis, majoribus, subus flavescens, Hollar Tab. 4. fig. 7. Jonst. infect. Tab. 8. fig. 26. The yellow Royal Leopard, about London.

Tab. 34. A Geratum *Capense* Crithmi folio, capitulis parvis, Fig. 1. Sent me from Dr. Fred. Ruysch.

2 *Hermannis Capensis* *Althææ folio* Hort. nost. ficc. H. 15 Ray H. Pl. V. 3. app. 245. from the Cape.

3 *Ricinus Chinenfis* Sebifera, *Populi nigra fol.* Mus. nost. 965 China Tallow-tree le Compté Angle. p. 101. Who describes this Tree pretty well, and says its red leaves and white Kernels at a distance, make a very fine prospect: See its other Synonyms and description amongst the Chusan plants, I have given an account of in the P. Trans. No. 286. p. 1429. 90.

4 *Nerita Oriadensis* lutea, bifasciis nigris.

5 *Nerita Oriad* fusca, fasciâ unicâ flavescens.

6 *Nerita Oriad* flava, striis capillaceis. These elegant varieties, found the last Summer on the Shoars of the Orkney Isles.

A 7 *Papilio minor*, è fusco & aureo quodammodo tessellatus, The Chequered Hogg. This and the next are supposed Male and Female.

A 8 *Papilio minor*, ex aureo & fusco mixtus, striâ nigra notabili, The Chequer-like Hogg, known from the last in having 2 black streaks, near the shoulders of its upper wings, and its Golden Chequers are less obvious, and rather melted into a field.

A 9 *Papilio minor*, aureus, striâ nigra distinctus, The streaked Golden Hogg.

A 9 a *Papilio minor aureus immaculatus*, The spotless Hogg, Here needs no figure, it only wanting the streak in the last, these four Mr. Landridge has both observed and plainly distinguished.

10 *Faba Oriad* nigra, polita, tetrasculata, hilo magno, vid. Cluf. Exot. p. 4. fig. 9. Mr. Wallace, hath figured this in his description of the Orkney Isles, p. 14. also from the Philippine Isles.

11 *Agnus Castus Crocod*, folio glauco subrotundo, received from the Crocodile Isles: since I have obtained better specimens from Chusan, by the Fruit I find it to be a true *Agnus Castus*.

12 *Arenaria minor Camphoratæ folio*, *Lychnis pumila laxa*, *Juniperi folio* Rei. Herb. 339. 2.

Tab. 35. **P**apiliunculus cœruleus vulgatissimus Muf. nost. A. Fig. 1. 318. the blue Argus, on common Heaths.

A 2 Papiliunculus cœrulescens, limbis nigris, the pale blue Argus, somewhat larger, than the last, and much paler on both sides, I have seen it in the thickets near Banstead downs, and Purfleet.

A 3 Papiliunculus è cœruleo fuscus, the mixt Argus, this differs from Fig. 1. in having brown mixt with the blue, and some Eyes on the margin of the lower wings above.

A 4 Papiliunculus fuscus, marginibus aureis, the edged brown Argus, this has no blue above, but selvedged with Golden Eye-like spots.

5 Curculio *Bengalensis* subrufus maximus, this is much the largest insect of this kind I ever saw, I cannot perceive any mouth it has, but that deficiency, Nature I presume, has made up with its snout or Proboscis, which being hollow, sucks in its nourishment; from Bengall Bay.

A 6 Buccinulum minutum ovale. an Buccinum exiguum subflavum, mucrone obtuso five Cylindræum Liff. Hist. anim. Angl. 121. Fig. 6. I have found this very small Shell on the sandy Banks of the Thames near Kingston, distinguished from others, by being thick, short and blunt.

7 Vaccinia forte *Chusan*, Laurocerasi fol. fl. tubuloso.

A 8 Planorbis minimus, Algis frequenter adhaerens; a Veri-culus exiguus albus, Nautiloides Algæ ferè adhaerens Liff. H. Conch. L. 4. S. 3. Fig. 5. Tab. 533. on our shoars.

A 9 Schistus Pinoides major; this and the next to fill up the cavity of their impressions have a Coal-like substance in many of them, they somewhat resemble the Scales of Pine-cones or their younger Branches.

A 10 Schistus Pinoides minor, the impressions on this are much smaller than the last, both found in a Coal Pit at North-Byerly Yorkshire,

11 Rosa *Chusan*, glabra, Juniperi frustu, this Rose I have received both from Chusan and China.

1 Myriophyllum *Indica Orient*, ramosissimum, Philipp. submar. Cat. 6. s. A. P. No. 286.

13 A fragment of the last, as it appears thro' the Microscope and mentioned in the A. P. No. 286. p. 1420. 6.

Tab. 36. **G**ramen Lagopoides *Chusan*, spicis cristatis palefcentibus *Chusan*, 24. s. A. P. No. 286. p. 1322. 24.

2 Sambuco palustri affinis *Japonensis*, fol. lato, ferrato, flore cœrulescente Hort. nost. ficc. S. 8. Ray H. Pl. V. 3. app. 248.

A 3 Papilio minor, fuscus *Hampsted*, marmoreatus, Handley's brown Butterfly, this varies something in magnitude and colour, but scarce discernable.

4 Os pulchre ferratum, fossan Piscis cujusdam; from the East-Indies.

A 5 Musca apiformis proboscide porrecto, alis maculatis, this hovers in the air like a Hawk and darts with a wonderful swiftness.

A 6 Pap. fuscus, &c. Muf. nost. 325, Our brown Marsh Fritillary; this and fig. 9 I take to be Male and Female, not common.

7 Coccifera *Chusan*, Coryli folio, floribus exiguis racemiferis Chuf. 67. a. p. No. 286. p. 1413. 67.

8 Fagara *Chusan*, Rhoeo Virginianæ fol. caule alato Chuf. 74. a. p. No. 286. p. 1423. 74. known from the rest of this tribe by its wetted stalks.

A 9 Papiliunculus fuscus, punctis paucioribus albicantibus, Mr. Dandridge's march Fritillary, The spots on this are larger and fewer than Fig. 6.

A 10 a Phalæna bombylus maximus rufus, this large and beautiful insect, caught about the end of May at the foot of Box-hill.

A 10 a Phalæna bombylus max. fuscus. this and the last may be Male and Female, its dark part of the Wings are blacker and narrower, caught last Summer on Hampstead Heath.

11 Cochlea *Orcad*, maxima, crassa, fasciata, this resembles our Scarborough Covins Muf. nost. 813. but 4 times larger.

12 Echinus *Chinensis*, stellatus, compressus. Sea urchin, China.

Tab. 37. **P**halæna *Luzon*, media è nigro alboque mixta, Fig. 1. black and white as the figure represents.

2 Chrysalis parva, castanea, Erucae sequentis, From this breaks out the Moth figured in Tab. 28. 8.

3 Eruca *Luzon*, pilosa antennulata, nigro & flavo variata, Soncho lævi vicinitas. This Caterpillar having spun a silken Web confined 16th. Oct. and flew the 22d.

4 Orobanche *Mauritanica*, fl. purpureo. Grows in Sandy places, to the broom at fig. 13. it. flowers in Feb. and March, the inhabitants call it Danoon, this plant with many others were observed and designed by Mr. J. James a Surgeon, about 1680. Whilst he was in Barbary, being a Slave there near 20 years; after his death this book came to me.

5 Papilio *Luzon*, medius albus, this and the first are from designs F. Kamel sent me.

6 Scarabæus Cerambix *Luzon*, facie Tauri. This, the next and 12. F. Kamel sent both designs and insects.

7 Stockerus *Luzon*, viridis, scapulâ maculifq; purpureis, an elegant Species of Tab. 21. Fig. 12.

8 Fructus pent-angulus, alte sulcatus unucleus, from Cochinchina.

9 Curcuma Officinarum Dale Pharm, 562. 5. Kamel Ray H. pl. vol. 3. app. 23. xi. The true Turmeric.

10 Nucleus tetragonus *Guineensis*, basi foraminoso, Its a woody substance with capillary veins, has at the bottom 2 large holes near the length of the fruit.

11 Nux *Luzonica*, fusca, zonâ pallidâ, the kernel of the Arbor Bigaâ, Ray H. Pl. V. 3. app. 61. 3.

12 Cerambix *Luzon*, minor atratus & striatus.

13 Spartium *Mauritanicum*, fl. albo monospermis. in Arabic called Rotum.

Tab. 38. **N**UX. *Guineensis*, nucleo Moschatæ similis. The shell is thick and brittle, in shape like the Kernel of the Nutmeg, which is the part we use; the Kernel within, is the colour of Palm Oyl, and the consistence of Suet.

2 Phaeolus *Jamaicensis*, niger, compressus, circa nilum albus an Phaeolus maximus perennis, semine compresso lato, nigris maculis notato, Cat. pl. Jam. 66.

3 Nucleus *Luzon*, Dactyli facie, fere trispermis.

4 Nucleus *Luzon*, Cylindræus, sulcatus, extremitatibus punctatis.

5 Scarabæus arboreus *Luzon*, 3. seu subplanus sublustis luride æruginoso maculosus Kamel Mfs. this is similar to Tab. 23: fig. 12. and Tab. 26. 9.

6 Scarabæus arboreus *Luzon*, 2. f. luteo-fuscus, tenuiter striatus Kam. Mfs. Our Bracken-clock fig. Tab. 22. 4. is like this, but less.

7 Ægilops *Mauritanica*, aristas longioribus binis Hort. ficc. Petiver, a. 37. Ray H. Pl. V. 3. app. 241. this the Moors call Khortaan, flourishes in May.

8 Sanamunda forte *Mauritanica*, fl. luteo, It flowers all Winter and Seeds in March; the Natives call it Mitinaam, signifies strong, perhaps from its Bark, of which they make Cords and Ropes, as we do of Hemp.

9 Chamæcistus forte *Mauritanica*, luteus, foliis parvis ferratis, From a Fibrous Root a item 3 inches high.

10 Papiliunculus *Luzon*, cœrulescens, subtus undis striatus.

11 Scarabæus arboreus *Luzon*, sublustris punctatus Salibamban & Salagabat Indis.

12 Carlina forte *Mauritan*, fl. ex albo sanguineo. The Natives call it Tickuntoos. It flowers in April, the Roots are of a very hot taste, and by them much used in powder, and conserve, to heat the coldness of the Stomach.

Tab. 39. **B**accifera planta perpumila *Mauritanica*, grows in Rocky places, the Moors called Fox-grapes.

2 Dracunculus volans *Looganus*, ex sicco desumptus, differs from that I have mentioned in my Muf. No. 119. being speckled, and having 6 ribs in each Wing, ours having but 4. and instead of little spots is largely waved with dark brown.

3 Ficoides forte *Mauritan*, perexigua, the Natives call this Lowon.

4 Papilio *Luzon*, fuliginosus, oculatus & undulatus, besides its dull colour this is distinguished by having 9 Eyes in each lower wing.

5 Papilio *Luzon* fuscus minor, ter varie bioculatus, the Eyes in the wings of this Fly are peculiarly placed.

6 Eruca *Luzon*, multicolor, Eruca Malvæ hortens. polymita, glabra, albo, fusco, nigro, & flavo tessellatim variegata Kamel Mfs. This changed into a Chestnut Chrysalis Fig. 7. the 19th. of Feb. which produced the 3d. of March, a variegated Moth like Dr. Liffers. No. 92.

7 Chrysalis ultimæ Erucae.

8 Fungus *Mauritanicus* verrucosus ruber, succo sanguineo, Turtooths Bargasham Indigenis, It grows a foot high, of a dark red but paler below.

9 Locusta echinata impennis è *Chusan*, resembles the Locust-talpa. Tab. 13. Fig. 7.

10 Rottang *Luzon*, vulgaris, Fructus peregrinus squamosus 3. Clus. Exot. 24. Fig. 2. vid. Ray H. Pl. V. 3. app. 19. 3.

10 a Officulum Ejusdem, this Stone is horny, the Meat white and slimy, of a grateful sour, chewed quenches Thirst, a Tea or Decoction of it refreshes Feverish Persons, and is effectual in heat of the Reins.

11 Rottang *Luzon*, fructu pyramidalis majore Lab. nit. Kamel, Ray H. Pl. V. 3. p. 19. 4.

11 a Its Kernel which is also edible, is of a Tart Sweetness.

12 Eruca *Luzon*, radiata, s. pilis plumosa. Eruca ardens Baful Kam. Mfs. The middle of the Back is yellow, spotted with black, the body green, from whence and its sides, comes 20 hairy Feathers, it feeds on the Rose, this is a very odd Caterpillar, and its Coffin as strange being globular.

13 Aurelia *Luzon*, globosa fusca, about the bigness of a Pea, the Coffin of the last Caterpillar, into which it changed 17 Jan. 18 Feb. produced a small brown Moth.

Tab. 40. **G**lobularia *Mauritan*, caule folioso, Tufolkha Fig. 1. **G** Maurit. It Flowers in March.

2 Kali forte *Mauritan*, polyspermis.

3 Phalæna *Bengalensis* fusco & diaphano mixta. This elegant Moth caught Dec. 1701 in the Bay of Bengall.

4 Papilio *Madraspatan*, croceus, nigris maculis aspersis, albique serie marginatus Muf. nost. 721. The Madras Fritillary.

5 Matricaria *Mauritan*, pumila, Flowers in April.

6 Culex *Luzon*, eviridi fusco, Musca rostrata seu, Musca Papilio Arbor Lanette Kam. Mfs. Insect. I take this to be of the Gnat kind by its make, and motion in flying, which is very swift up and down.

7 *Cimex Luzon oblongus*, & nigro & fusco, humeris echinatis, *Musca Tympanista*, s. *Formica-Culex* Kam. Mfs. this and the last frequent the Lanette Tree, described by Mr. Ray, app. 3. pag. 89.
18. I have observed two of this Genus in Eng. tho' not Spinose.
8 *Aloes forte Mauritan*, pumila, foliis glaucis.
9 *Yguana Luzon*, edulis, capite cœrulescente, Cagafagam vel Layagan Indigenis, It agrees with the Yguana, called Guana in the West-Indies, in being fin'd on the back, and edible, the Crest on its head is fleshy and red like a Cock's-Comb. F. Kamel sent me a description with several other Lizards, Serpents, Frogs Turtles, &c.
10 *Convolvulus forte Mauritan*, fl. cœruleo, fundo luteo. It flowers in May.
11 *Phalæna accipitrina Luzon*, pulchra, variis coloribus ornata, hatcht in a fortnight from the Aurelia, Fig. 13.
12 *Eruca Elephantina Luzon* virefcens, maculis 4. flavis oculatis, this Caterpillar eats the great Philippine Arum called there Biga, it is described by Mr. Ray in his H. Pl. Vol. 3. app. 35. 1. Whose figure I shall give in my 2d volume of Decades. I find this, tho' a biting plant, a peculiar Food to 2 or 3 of these horned Caterpillars, before this changed into Fig. 13. which was Feb. 14. it turned from green to reddish, and on the 28th broke out into the Moth above.
13 The Aurelia, of the last Caterpillar, viz. a middle state between it, and the Moth fig. 11: which is the insect in perfection.
14 *Anacardij Orientalis Officinarum Fructus*, The dry Fruit of the true Anacardium, hitherto very rarely met with in our Drug-gift Shops. I first received it from Persia, where they use it in dyeing their Chints or Calicoes, which Christ. Acofta & Garcias ab Horto confirms. I have obtained Specimens of its leaves and flowers which shall be figured in my future Decades.

DECAS V. T A B. XII.

FIG. 1. *Cimexoides Luzonis Hortensis*, ex viridi, flavo, albo, nigro et rubro, eleganter depicta. Feeds on the Lupine leaved Malabar rattle-broom.
2 *Scarabæus pectinarius Luzon*, merè viridis. The inhabitants call this Tipaclong, its of a pale shining green, and is of our Dor or Tree Beetle kind, having horns, when expanded, resembling a comb.
3 *Cochinella Luzon*, major e cupreo viridique eleganter striata A very elegant beetle, each rib alternately streak'd with a changeable green and copper lustre, form Lisbon.
4 *Jacobæa Mauritanica coronopii folio*. Flowers in March.
5 *Musca tricornis Luzonica*. The head and body is black, the last mixt white, it hath a dancing flight like our gnats.
6 *Cimex Luzon omnino viridis*. I take Fig. 1. to be the Hexapode of this Lupine Rattle-Bugg.
7 *Nodiflora Mauritanica foliis verticilli modo ferratis*. It's found in Barbary amongst rocks and stoney places and heads in February.
8 *Amomum legitimum Kameli*. You may see a large and accurate description of this in the Dendrology of Mr. Ray's 3d volume of plants, p. 89. These seeds smelling pleasantly, the Indian maidens wear bracelets of them about their necks and arms, mixt with musk seed, Job's tears, Indian cane, abrus or Angola seed, &c.
9 *Polygala Mauritan. lutea aromatica*. This rare plant with Fig. 4 and 12. were seen in Barbary.
10 *Phalæna Bengalensis*, fulva, maculâ albescente. Malacca.
11 *Phalæna Bengal. viridescens, linea pallescens*.
12 *Limonium Mauritan*, flore minimo, caule foliofo. The Barbary sea lavender. Flowers in May.
Tab. 42. **P**AO de Cœbra Lusitanis, i. e. Snake wood. F. Kamel Fig. 1. says this is brought from India, its bark is reddish, thin, compact and bitterer than the wood, which is grey and solid, resembling that of Tamarisk, vid. Ray. Syllab. Kamel, p. 88. 6.
2 *Scarabæus pectinarius Luzon*, capite dentato. The Squill Comber, feeding on that plant.
3 *Scarabæus Luzon*, forcipatus ater, this gnaws trees.
4 *Nux biforis in tres dehiscens putaminis partes*, under this inscription F. Kamel sent me its design, with fig. 8, 10 and 14. amongst several other fruits.
5 *Pilulatus Luzon, niger minimus*. Fig. 2, 3, were sent me amongst the designs of F. Kamel's Philippine Beetles, and since that the insects of the 2 last.
A 6 *Phalæna-Bombylus*, parvus, corpore nigro, ano croceo, caught in Hornsey Wood in June.
7 *Jasmini flore, frutex Philippensis, foliis floribusque fere ternis*, *Dicurdalaga Luzonenfis*, grows on the Sea Coasts; the leaves stink and taste like Wormwood, Kamel, Syllab. see Raii. hist. plant., vol. 3. append. pag. 92. No. 46.
8 *Nux Naicensis* 2, *Setis candidis conveffita* fig. 14, this F. Kamel supposes to be nuts of palms. Kamel, Syllab, Ray, p. 46, No 19.
A 9 *Musca Apiformis, proboscide porrecto, alis non maculatis*. This differs from Gaz. N. Tab. 36, Fig. 5. in being somewhat less, the wings without specks, but more clouded on its upper edge, Mr. Dandridge observed this in Cain wood.
10 *Nux Moschata oblonga, maxima, montis Balete*, F. Kamel sent me this draught, and from him it's described by Mr. Ray in his Syllabus, pag. 58. 4. Its leaves, Kernel and exterior fruit, you shall have the figures of amongst the Philippine trees, with the male and female nutmegs.
A 10 A. *Phalæna parva viridescens, corpore fusco* I have as yet seen this insect only in Mr. Dandridge's collection, its brown body and pale rim differs it from the next.
A 11. *Phalæna parva, viridescens, corpore albescens*. Several of these I have observed in a wood against the boarded river after Midsummer.
A. 12. *Aurelia nigrescens ejusdem*.

A. 13. *Eruca exigua lutea, capite & guttulis nigris*. This is the caterpillar of fig. 11.
14. *Nux Naicensis* 1. *Cortice nigro, reticula candida obducta* An Baguidiot fructus Alexipharmacus? Kamel Syllab. Ray, p. 46
18. an fructus reticulato corio costans cluf. exoric. cap. 11. p. 31. fig. Tab. 43. **U**mbilicato folio arbor Philippens. Balanti dicta. Fig. 1. They commend the root of this in fluxes. Kamel. Syllab, Ray 93. 5.
2 *Platani folio arbor* resoposo Philippens: a middling tree, its wood bitter and of little use. Kam. Syll. Ray. 89. 24.
3 *Phalæna Luzon*, ex albo purpureo nigroque eleganter variegata, Its head and rump yellow, back black, and shoulder ring white.
4 *Eruca Luzon, glabra, lineis luteis, fuscis & albis*. These yearly feed in great numbers on the pancratium minus after the rains.
5 *Aurelia ejusdem*. This coffin of the last Caterpillar changed about Christmas, and in 15 or 16 days broke out into the elegant Moth at fig. 3.
6 *Squilla marina Luzon, major*. Indis Manla & Tila. Kamel de Piscibus Moluscis & Crustaceis Philippensibus in Actis Ph. No. 302 31 where describing its length he means for bicubitallis, biuncialis, which better agrees with the figure that I copied from his design.
7 *Zapoti nigrum*. Jucatanensibus Ulz. This is a very great shady tree, with thick dark shining Leaves.
8 *Flos aureus pentapetalus Ejusdem*.
9 *Calyx & perianthium floris præcedentis*.
10 *Fructus ejusdem*. The pulp of this apple is black or brown, and tastes like a plumb; but before its ripe it pricks the mouth like Arum, it contains 5 or 6 horney stones. vid. Kamel, Syllab. Ray vol. 3. p. 54. pl. 4.
11 *Angola Luzon. Aceris folio*. The brittle tree, the natives use the leaves to procure easy delivery.
12 *Ardea exotica aurita*. This bird is remarkable for its 2 ear'd tufts on the head and wanting its back toe,
13 *Squilla marina Luzon, minima, seu formica marina*. Hipon vel Dilis Kamel de Piscibus Moluscis & Crustaceis Philippens. in act Phil. No. 302. 5.
14 *Araneus Luzon, oblongus lutescens, longipes, ventre tenui geniculo in caudam distincto*, Kamel Mfs. Araneor.
15 *Phalæna Luzon, aterrima, collo, cauda extremitatibusque alarum aureis*, these 3 last from Kamel's designs.
Tab. 44. **A**BRUS minor coccineus vulg. hilo nigro. I have Fig. 1. received this seed from Africa and both the Indies. 1. a *Abrus lutescens*. 1. b *Abrus niger*. These are varieties of the 1st.
2 *Abrus Antegoanus, medius miniatus*.
3 *Abrus Anteg. med. miniatus, nigro nubilatus, Antegoa*.
4 *Abrus sanguineus maximus, nigro mixtus, Anacock quibudam*.
5 *Abrus Barbab, niger parvus, hilo rubro*. This pod hath rarely more than 2 seeds, and sometimes but one.
6 *Semen Ejusdem*, This is smaller than fig. 1. flattish, black, with a red eye.
7 *Cochlæa oblonga exotica levis*, seen at Mr. York's.
8 *Phalæna alba semidiaphana, guttulis paucis nigris, gawse Moth*.
9 *Rhinoceros Luzon, nigricans capite vaginisque punctulatus*.
10 *Bontiana Luzon, geniculis inferioribus carinulatis*. Bontius being the first that gave us this kind, if not this plant, I have attributed his name to it for distinction. Its a parasitical plant, generally growing on trees as our Polypodium and Mistleto, the flowers for the most part resembling Aloes or Orchis, therefore called visco Aloes.
11 *Sorbus Luzon, foliis ternis ferratis, Bitongol Indis, Carandas Garcie ex sententia Kameli*. It flowers in May, and fruit ripens in August, of a pleasant roughish sweetness, and full of small grains.
12 *Remora Luzon, corpore tereti, Comi Boholanis & Zebuanis, Quini Leitenfisibus*, F. Kamel Philippine Isles, Transf. No 302. 24.
13 *Toucan Surinamensis niger, ex albo flavo rubroque mixta*. Tab. 45. **L**ignum Arboris Panguaguaon, the root and wood Fig. 1. of this is both a Vulnerary and Febrifuge, takes away pains in the head, good against poison and the bites of venomous creatures, experienced, by Kam. Syllab. Ray p. 89. 16.
2 *Folium ejusdem*.
3 *Conchæ Triquafay facies externa* Kam. Mfs. de Testac. This is a sort of tree or Rock Oyfter, and agrees with a Virginia kind which from its shape they call a hammer shell.
4 *Monstrum Philip. Centauri facie*. F. Kamel.
5 *Phalæna media rufescens, Semicolon dicta*. What is very particular in this moth is, its under wings from its shoulders are extended beyond the upper, which, with its Semicolon-like specks, remarkably distinguishes it from others.
6 *Phalæna Luzon, alba, margine superiore & corpore sanguineis*.
7 *Nux Arboris Hohom quam & Tagoligas vocant*. Kamel.
8 *Nucleus Hohom*.
9 *Zapoti Chinens, fructu cinnabarino*. Xicu Sinens. Chicoy Hispan, Figocaque Lusit. Its leaves single, 6 inches long and 3 broad, Kam. Syll. Ray p. 54. 5.
10 *Zapoti Fructus*, dried in the sun, as they do figs.
11 *Zapoti Officium*.
12 *Lapis cui a natura curiosa figura insculpta est* D. Spener, act. Phil. No. 302. p. 2083. 16. An impression of an Entrochus upon an iron stone.
A 13 *Phalæna brunna bimaculata fascijs fulvis*.
14 *Buccinum Mediterran, læve, ex albo nigroque variegatum, from the Streights*.

Tab. 46. **S**erpens American, variegatus, cingulis maculifque
Fig. 1. nigris interspersis.

2 Vanilla Officinarum. Dale Pharm. 508. This figure shews its leaves and twin or double Pods, with its manner of twining about other plants.

3 Vanilla, its flower, which being so particular may easily be known from other plants.

4 Its full grown pod, which is used in Chocolate, and has the fragrance of Benjamin.

5 Betle Mexican, repens fol. pinguibus odoratis. This the natives call Mecaxochitl, they mix it with their Chocolate to give it a more pleasant taste and correct the breath.

6 Betle Novæ Hispan, fructulongo angustissimo. There was several of these found in the Spanish West-India ships when destroyed at Vigo. They have generally 2 and sometimes 3 tails tyed with a twine, which seems to be the splinter of some sort of rush.

7 Unicornu Nevicense, gyris cavis. This shell is particular in having alternate hollows round its twirls, which in the figure is express'd by the black spots.

8 Arbor Mexicana, flore Tulipæ flaminibus Ornithopodij simile. Macpalxochi quahuil Mexicanis. Flor Camomano Hispanis, a very old tree.

9 Arbor Peruviana, Corticem Febrifugam ferens. from Pomet.
10 and 11 Are the external and internal face of the bark of the aforesaid tree.

12 Avicula forte Surinamensis, e nigro rubroque mixta. It's behind mostly black, the head, collar, breast and belly red.

13 Avicula forte Surinam, nigra, capite e luteo croceo. Surinam birds.

14 Scarabæus Mexican, bicornis. Tomolin ichcazin Mexicanis. The lighter part in this figure is of a reddish Chestnut colour, the rest black.

15 Papiliunculus exoticus cæruleus, cæruleus,

16 Echinites Carol, compressus rhomboidibus Testudinaribus. This is a piece of Fossil echinus, and seems much to resemble 125. in my Mus.

Tab. 47. **C**Apricornus Luzon, maximus. His sheaths tawny,
Fig. 1. the rest black, horns and legs shining, F. Kamel.

A 2 Ranatra cornuta, I first saw this in Cain-wood at Hampsted on Fern stalks, not common.

A 3 Thus appear when sitting.

A 4 Ranatra rubra elegans, maculis nigris.

5 The same moving to fly.

A 6 Ranatra viridescens. Its wings are of a faint bluish green, and tips pale.

A 6 * Ranatra fusca, These 4 last are a new genus of insects approaching next to the Locustæ or Grasshoppers, but their shape differing: I have chose to distinguish them, from their form and action, by the name of Frog-hoppers.

A 7 Its flying posture.

8 Osmunda Luzon, repens Fumarie folio. F. Kamel sent me this under the title of Fumaria capillaris.

9 Asplenium Luzon, bicubitale pinnis alternis.

10 Filix Luzon, pinnis alternis Salici æmulantibus. The leaves of this are somewhat less waved than the design.

11 Trochus Luzon, albis maculis nigro reticulo textus. A design of this and its description from F. Kamel.

12 Millepora Mediterranea, Barbary-Shore.

13 Cervi volantis Caput, Indis Olalo. The figure and head of this strange beetle, F. Kamel.

14 Hysserolithos Lapis. This wonderful Fossil Dr. J. G. Kifner, found in the Vineyards of Lohenstein.

15 Is the Reverse.

Tab. 48. **F**ungus Cinabarinus Ligni Molavin, an E. B. 1. 1.
Fig. 1. seu act. Phil. No. 287. p. 1456. I. See a description of this tree in Kamel, Syllab. Ray v. 3. app. p. 69. 14.

2 Hemisphericus Luzon, Minij coloris. This delights in the Rosa sine spinis Kam. Ray. v. app. 77. i. e. Alcea Javanica fl. pleno.

3. Eruca purpurea hirsuta, albis punctis notata, the Catterpillar of the last insect.

4 Follicula ad latera pilosa, thro' the back of this breaks out the Beetle at figure 2. F. Kamel.

5 Cantharus Luzon, viridis lævis, Indis Camarinensium, Dias, Gao, Lanibao, & Salibat, design and insect F. Kamel sent me.

6 Hæmisphericus Luzon, aureus maculis plurimis nigris, feeds on the garden shade, resembles our Lady-cow, is larger, 3 times the spots.

7 Folliculus globosus caudâ pilosâ.

8 Erucula Luz, alba pilosa, This turns into the last which produces fig. 6. F. Kamel has been very accurate in observing the changes of these insects.

9 Blatta domestica Luzon, nocturna. Hispan. Cucca & Cucaracha. Lusit. Barata, Indis Ipis & Bancocang, resembles our house Cock-roach, like them very devouring, appear in the night only. The Indians drink their ashes in physick, bruise and mix them with sugar, applying them to ulcers and cancers to suppurate, it's said they are given to kill worms in children.

10 Corallium stellatum compressum albescens. The superficies is smooth, and the stars scarcely raised.

11 Filix Luzon, pinnis alternis serratis. F. Kamel calls this the Adiatum nigrum quorundam, seu Dryopteris dalechampi, to which last I cannot readily agree. Ray Syllab. Kam. p. 1. pl. 5.

12 Volvulaceus Luzon, Colutæ foliis, Asplenium seu Lonchitis scandens Ray Syll. K. m. p. 2. 15.

13 Cochlea cælata, Indis Binga, Under this title F. Kamel sent me its design, which is exactly copied.

14 Olivare condor, bullulis nigerrimis refertis, an Buccinum brevirostrum parvum nigricantibus nodis seriatis circumdatum L. H. C. l. 4. f. 15. c. 1. Fig. 4. Tab. 954. an elegant small shell, shores of Pulo Condore.

15 Pectunculus Condor, fasciatus undis Castaneis.

16 Rhomboides nodosus, ore serrato, labro lato verruculato, an Rhombus parvus dentatus muricatus L. H. C. l. 4. S. 10. c. 70. Fig. 44. Tab. 791.

Tab. 49. **R**Anatra parva pellucida Succinata. This and the A. Fig. 1. 2 next are often found in woods and gardens, on the shady part of shrubby plants.

A 2 Ranatra Marmorata fusca.

A 3 Ranatra lata subvirens. Those in Tab. 47. & these are all that Mr. Dandridge or I have yet found.

4 Ceterach Luzon, scandens, pinnis alternis dentatis, Ray Syllab. Kamel p. 2. 20. Indis Panaypay. This Fern has about 20 leaves on each stalk.

5 Ceterach Luzon, pinnis alternis glabris. Indis Lagolo, Ray Syll. Kam. p. 2. 19. This has 25 leaves on each side, and is above 2 yards high.

6 Millepora Americ, Spongi-arenosa.

7 Scarabæus Luzon, cæruleus striatus medio cupreo. The middle of each sheath being copper, distinguishes this from all I have yet seen.

8 Scarabæus Buceros, Nasicornis primus Kam. Hoang Luzon, like our Borneo Bull-beetle Gaz. 14. 12.

9 Olivaris nigricans, striis albis undatis. I take this to be an East India shell. 10 represents its back.

11 Papilio albus minor apicibus nigris. tipt with black, distinguishes it from Mus. 303. are male and female.

12 Cuscuta Luzon, altera seu major Raj Syllab. Kam. pag. 1. pl. 1. Mabubu & Malobohog Philippenf. H. Mal. v. 7. Tab. 44. p. this climbs about shrubs, frequently on the Agnus Castus

Ray v. 3. app. p. 73. 3. bears a small tripetalous flower in April.

13 Pecten Condor, levis & lavis, supernè Castaneus infernè albus, a very elegant scallop, from Pulo Condore.

Tab. 50. **A**raneus Luzon longipes domesticus, a web-spin-
Fig. 1. ing house Spider.

2 Tarantula Luzon, innocuus, Araneus longipes 4. seu Trojanus. Bagna aliis Gambagamba Indis. Its body as large as a Filbert and brown, he lives on oyl-clocks, a sort of Beetle. Fig. A. shews a flattish round silken egg-bag, which he carries under his belly, yet produces 1000 young ones.

3 Araneus Luzon telarius, argenteo, flavo & nigro transversim striatus, fig. B. is its white flat silk bag, in which F. Kamel thinks were 200 eggs.

4 Araneus Luzon longipes, femini Ricino æmulans. F. Kamel sent me the designs of all these.

5 Cantharis Chusan, viridis elegantissimè variegatus, the most elegant of the Beetle kind.

A 6 Curculio parvus Splendidè

A 7 Curculio parvus splendidè æruginosus.

A 8 Curculio Crinitus, dorso pallido.

A 9 Curculio fuscus, dorso quasi cordato. The 2 first of these I have met with, the last are more peculiar and not common.

A 10 Cymecoides virens. (C) shews it wing closed.

A 11 Cymecoides e rufo flavescens. I have seen these in Bear, Cain and other woods about London.

12 Asplenium Luzon, Ari folio, Phyllitis Anglicano Luzonis Ray Syll. Kam. p. 2. 18. The feed leaves are higher and more erect than the rest, standing on longer footstalks than the green ones next the roots. They use this plant instead of the spleenwort of the shops.

13 Veneroides Barbar, minor marmorata. (D.) shews its back, from Jamaica and Barbadoes.

14 Cochlea Hortensis unicolor minor, umbilico parvo. I have often met with this in gardens and hedges.

A Classical and Topical CATALOGUE of all the Figures in the Five DECADES, or First VOLUME of the GAZOPHYLLACIUM, With References to their TABLES and NUMBERS.

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3 Bakers pond squill 21. 7.

4 Pea Urchin-egg 31. 10.

5 Warty Pentans sea star 16. 6.

6 Lhwyd's small Donegal sea star 16. 18.

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8 Vernons cambridge half mourner 1. 7

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15 Holly under green butterfly 2. xi

16 Hair streak butterfly xi. 9.

17 Brown double streak butterfly xi. 10

18 Gol. brown double streak butterfly xi. xi

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20 Chequer like hog butterfly 34. 8

21 Streakt golden hog butterfly 34. 9

22 Handleys brown hog butterfly 36. 3

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names turn
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 41 Dandridge's small greenish moth 42. x. A
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 59 Ditto saffron yellow girdled wasp 25. 10
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 123 Norway parchment mofs 14. 6
 124 Tunbridge maiden cleer 13. 4
 125 Small grafs mushroom 15. 4
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 129 Flat fairy beads 19. 12
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 261 Great Bengal trumpeter 35. 5
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CATALOGUS CLASSICUS & TOPICUS,

Omnium Rerum *Figuratarum* in V. Decadibus,

Seu PRIMO VOLUMINE

GAZOPHYLACII NATURÆ & ARTIS;

Singulis ad proprias *Tabulas & Numeros* relatis.

A JACOBO PETIVER, Pharmacop. LONDIN. & Regiæ Societat. Socio.

Animalia, Vegetabilia, Fossilia, &c. Anglicana.

- 1 **L**YRA *Harvicenf.* pinna dorsali longissima &c. Gaz. Nat. Tab. 22. Fig. 2.
- 2 *Scolopendra* parva terref. tardipes &c. G. N. T. 15. fig. 10.
- 3 *Squilla* lacustris minima, dorso natante G. N. 21. fig. 7.
- 4 *Echinus* perexiguus G. N. 31. fig. 10. Cat. Clafs & Topogr. 4.
- 5 *Stella* Hibernica *echinata* G. N. 16. fig. 6. Cat. Cl. & Top. 5.
- 6 *Stellula* Hibern. *glabra* G. N. 16. 8. Cat. C. & T. 6.
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- 26 *Papiliunculus* cæruleus vulg. 35. 1. C. 10. Mus. Petiv. 318.
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- 30 *punctis paucioribus albicanibus* 36. 9. C. 23.
- 31 *plurimis albicant.* 36. 6. C. 24. Mus. Petiv. 325.
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- 133 *Pinoides* major 35. 9. C. 134.
- 134 *minor* 35. 10. C. 135.
- 135 *Cylindrus* lapid. Byer. compressior &c. 18. 9. C. 136.

- 137 . . . Echinitæ laticlavii max. facie &c. 18. xi. C. 137.
138 *Namifma* Inaugurale *Annæ* Reg. *Magn. Britan.* 14.2. C. 138.

EUROPE *Animalia, Plantæ, Fossilia.*

- 139 *Cancer Agathensis* testâ variegatâ 20. 10. C. 139.
140 . *Lerina* insulæ, chelis curtis &c. 20. xi. C. 140.
141 *Ostrea Ulissipon.* minor rugosa 18. 12. C. 141.
142 *Trochylus Monspeff.* exiguus fasciatus 22. 10. C. 143.
143 *Re-Trochylus* parvus *Italicus* 17. 1. C. 142. (146.
144 *Buccinum* *Medit.* læve, ex albo nigroq; variegat. 45. 14. C.
145 *Cochlea oblonga exotica* levis 44. 7. C. 147. (M. P. 502.
146 *Papilio Alpinus*, ex albo nigroq; variegat. &c. 23. 8. C. 148.
147 . *Lusit.* oculatus & marmoreatus 7. 5. C. 149
148 . . minor ex aureo fuscus &c. 33. 2. C. 151
149 . *Sulphureus*, lunulis cæruleis &c. 10. 6. C. 147
150 . *Ulissipon.* ex nigro luteoque mixtus &c. 1. 8. C. 150.
151 *Accipitrina Livornica* perbellè striata 12. 9. C. 153
152 *Phalena Monsp.* alba minor speciosa, mac. sang &c. 3. 3. C. 152
153 *Bombylus Lusit.* è nigro cærulescente 12. 5. C. 154
154 *Cicada Turcica* media 15. 7. C. 155.
155 *Capricornus Norweg.* nigrescens vaginis punct. &c. 2. 1. C. 156
156 . . vaginis marmor. antennis brevibus 8. 5. C. 157
157 *Curculio Norweg.* niger, signat. flavesc. &c. 8. 9. C. 158
158 *Rhinoceros Lusit.* niger splendens, vaginis &c. 8. 4. C. 159
159 *Mantis Medit.* rufescens media 28. xi. C. 160
160 *Millepora* *Mediterranea* 47. 12. C. 161
161 *Alga* *Spongioides Monspeffulana* viridis 4. 12. C. 162
162 *Stratiotes* quadrifolia *Lujulæ* facie 5. 12. C. 163
163 *Filicula* è *Gallipoli* villosa, *Asplenii* facie 17. 13. C. 164
164 *Ranunculus* aq. *Plantag.* folio angustissimo 26. 12. C. 165
165 . *Paris.* pumilus, *Plantaginellæ* folio 25. 4. C. 166
166 . *Siculus* fol. rot. vix serrato 24. 9. C. 167
167 *Arenaria* minor *Camphoratæ* folio 34. 12. C. 168
168 *Sidereon* f. *Serpentaria* mirabilis *montana* 18. 6. C. 169
169 *Pectunculus* minor *Muscovit.* costis &c. 30. 1. C. 170. M. P. 728
170 *Hysterolites* *Lapis* 47. 13. C. 171
171 *Lapis* cui a *Natura* curiosa *Figura* &c. 45. 12. C. 171.
172 *Siliquastrum Rigenfe* *Limacis* &c. facie 17. 3. C. 173. M. P. 843

ASIE *Animalia, Vegetabilia, &c.*

- 174 *Monstrum Philippense*, *Centauri* facie 45. 4. C. 174
175 *Cato-Simus* volans *D. Cameli* 9. 8. C. 175
176 *Cercopithecus Luzon.* minimus *D. Cameli* 13. xi. C. 176
177 *Simia-Sciurus* lanuginosus fuscus &c. 17. 5. C. 177
178 *Lacertus* *Iquamofus* minor sculis aspersis 20. 12. C. 178
179 *Iguane Luzon.* edulis, capite cærulescente 40. 9. C. 179
180 *Dracunculus* volans *Looganus* &c. 39. 2. C. 180
181 *Avis Philip.* galeâ planâ 28. 6. C. 181
182 *Calao* avis rostrum rubrum &c. 31. 1. C. 182
183 *Avicula Chin.* è cærul. alb. & nigric. mixta 23. 5. C. 183
184 *Cæcilia Born.* pulla, lineis nigris &c. 29. xi. C. 184. M. P. 106
185 *Hirundo Luzon.* venenatus, ruberrima &c. 30. 2. C. 185
186 *Piscis* quadrat. parvus verrucosus &c. 1. 2. C. 189
187 *Remora Luzon.* corpore tereti 44. 12. C. 186
188 *Solea Philipp.* argentea 26. 10. C. 187
189 *Os* pulchre serratum, forsan *Piscis* cuiusdam 36. 4. C. 188
190 *Astacus Luz.* corn. echinatus, alb. lut. & cinn. &c. 29. 7. C. 190
191 *Squilla marina Luzon.* major 43. 6. C. 191
192 . . . minima 43. 13. C. 192
193 *Scorpio Javan.* major pilosus, è nigro &c. 13. 2. C. 193
194 *Echinus Chin.* stellatus compressus 36. 12. C. 194
195 *Stella Chin.* tetradaçtylon, capite pulchre venoso 36. 12. C. 196
196 . . . perelegans, dupliciter radiata 4. 6. C. 195
197 *Papilio Luz.* max. nigresc. maculis coccineis &c. xi. 8. C. 196
198 . . fuliginos. oculatus & undulatus 39. 4. C. 197
199 . . fuscus minor, ter. var. bioculatus 39. 5. C. 203
200 *Eruca* & *Chrysalis Ejusdem* 39. 6. 7. C. 204
201 . . cærul. mac. subtr. rot. & triangul. 27. 5. C. 201
202 . . oculis 7 oblongis fimbriatus 27. 6. C. 202
203 . . medius albus 37. 5. C. 203
204 . . è fusco & luteo superne mixtus 28. 7. C. 207
205 . . luteus marginibus atris 28. 9. C. 208
206 . *Madrasp.* med. flaved. & fusca mixtus &c. 4. 3. C. 199
207 . . croceus, nigris maculis aspersis &c. 40. 4. C. 200. M. P. 721
208 . *Ind. Or.* fuscus, margine cerul. &c. 22. 8. C. 198
209 *Papiliunculus Luz.* cærulescens &c. 38. 10. C. 206
210 *Phalena plumata* permaxima &c. 8. 7. C. 209. M. P. 729
211 . *Accipitrina Luz.* pulchra, variis coloribus &c. 40. xi. C. 210
212 *Eruca* radiata & *Aurelia* globosa &c. ejusd. 40. 12. 13. C. 211
213 *Phalena* max. *Chusan.* obscura fusca &c. 18. 3. C. 212
214 . *Chusan.* flava signaturis nigricant. 16. 7. C. 213
215 . *Bengal.* fulva, maculâ albescente 41. 10. C. 214

- 216 . . viridescens, lineâ pallescente 41. xi. C. 215
217 . . fusco & diaphano mixta 40. 3. C. 216
218 . *Luzon.* alba, margine &c. sanguineis 45. 6. C. 217
219 . . aterrima, collo &c. aureis 43. 15. C. 218
220 . . è fusco & albo &c. commaculatus 28. 8. C. 219
221 *Chrysalis* & *Eruca* ejusdem 37. 2. 3. C. 220
222 . . cinerea maculis flavis &c. 26. 3. C. 223
223 *Eruca Luz.* radiata f. pilis plumosa 39. 12. C. 224
224 *Aurelia Luz.* globosa fusca 39. 13. C. 225
225 *Folliculena* f. *Folliculum Phalænæ* ovale &c. 5. 9. C. 226
226 *Culex Luzon* è viridi fusco 40. 6. C. 227
228 *Musca* *tricornis Luzonica* 41. 5. C. 228
229 *Locusta* echinata impennis è *Chusan.* 39. 9. C. 229
230 *Cimex Luzon.* oblongus è nigro &c. 40. 7. C. 230
231 . . omnino viridis 41. 6. C. 231.
232 . . *Succinatus*, pedibus aliisque nigerrimis 8. xi. C. 233
233 *Cimécoides Luz.* hort. è viridi flavo albo, &c. 41. 1. C. 232
234 *Capricornus Luzon.* maximus 47. 1. C. 239
235 . . ex atro & aureo mixtus 28. 5. C. 240
236 *Capricornulus Orient.* viridis, guttulis nigris 4. 7. C. 241
237 *Cantharis Chusan.* viridis, elegant. variegat. 50. 5. C. 242
238 . *Luzon.* viridis lævis 48. 5. C. 253 (M. P. 707
239 *Cantharus Madr.* vagin. & pedib. rubris &c. 22. 7. C. 252.
240 *Carabus Bengal.* è cupreo virefcens 20. 8. C. 251
241 *Cerambix Luz.* min. atratus & striatus 37. 12. C. 257
242 *Cervi* volantis caput. *Olalo* *Indis* 47. 15. C. 235
243 *Cochinella Luz.* major, è cupreo viridique &c. 41. 3. C. 263
244 *Curculio Bengal.* subrufus maximus 35. 5. C. 261
245 *Blatta domestica Luz.* nocturna 48. 9. C. 243
246 *Buceros* max. *Rhinocerotis* niger *Borneoc.* 14. 12. C. 238
247 . *Luzon.* *Nasicornis* max. &c. 29. 2. C. 236
248 *Hemisphæricus Luz.* *Minii* coloris 48. 2. C. 264
249 *Eruca* & *Follicula* ejusd. 48. 3. 4. C. 265
250 . . aureus, maculis plurimis nigris 48. 6. C. 266
251 *Folliculus* & *Eruca* ejusd. 48. 7. 8. C. 267
252 *Testudinulus Philip.* luteus, nigro maculatus 9. 1. C. 268
253 *Aurelia* & *Eruca* ejusd. 9. 2. 3. C. 269
254 *Pilularis Luz.* niger minimus 42. 5. C. 262
255 *Rhinoceros Luz.* nigricans, capite &c. punct. 44. 9. C. 234
256 *Scarabeus Luz.* arboreus, sublustis punctatus 38. xi. C. 245
257 . . . 2. seu luteofuscus tenuiter striatus 38. 6. C. 250
258 . . . 3. seu subplanus &c. 38. 5. C. 247
259 . . *Pectinari* capite dentato 42. 2. C. 244
260 . . . atro-smaragdinus 28. 3. C. 246
261 . . . mere viridis 41. 2. C. 249
262 . . cerulescens striatus, medio cupreo 49. 7. C. 255
263 . . forcipatus ater. 42. 3. C. 256
264 . . elasticus, vaginis striatis 27. 10. C. 258
265 *Buceros Nasicornis* primus 49. 8. C. 237
266 . *Cerambix Luz.* facie *Tauri* 37. 6. C. 254
267 . *Philip.* *Prasino-aureus*, maculis &c. 26. 9. C. 248
268 *Stockerus Bengal.* viridis, nigro maculatus 21. 12. C. 259
269 . *Luz.* viridis, scapulâ maculisque purp. 37. 7. C. 260
270 *Asellus marinus* è nigro luteoque striatus 1. 4. C. 270
271 *Araneus Luzon.* *Bovinus* 26. 5. C. 271
272 . . crustaceus, cornu lunulato 26. 7. C. 272
273 . . testaceus trilunatus 26. 6. C. 273.
274 . . . angustus trilunatus 26. 8. C. 274
275 . . . longipes domesticus 50. 4. C. 279
276 . . . sem. *Ricino æmulans* 50. 4. C. 280
277 . . oblongus lutescens longipes 43. 14. C. 281
278 . . telarius, argenteo, flavo &c. 50. 3. C. 277
279 . *Ovarium* ejusdem 50. 3. B. Cat. 278
280 . . mortiferus smaragdinus aureus 29. 4. C. 282
281 . . ex argenteo flavo & fusco &c. 29. 6. C. 283
282 . . torosus pilosus totus fuscus 29. 10. C. 284
283 . . gibbosus subfuscus &c. 29. 12. C. 285
284 *Tarantula Luzon.* innocuus 50. 2. C. 275
285 . *Ovarium* ejusd. 50. 2. A. Cat. 276
286 *Cochlea Bengal.* ore lacerato 4. 10. C. 289
287 . *Luzon.* pallida, fasciâ nigricante 32. 2. C. 286
288 . *inversa*, dentato ore 20. 9. C. 288
289 . oblonga, striis flavicantibus nigris xi. 3. C. 306
290 . calata, *Indis* *Binga* 48. 13. C. 318
291 *Balanus Chinensis* cristatus 6. 10. C. 332
292 *Buccinum* nigrescens, maculis albis aspersis &c. 18. 1. C. 309
293 . *Madrasp.* nodosum, striis fasciatis 19. 10. C. 316
294 *Buccinulum* album, lineâ sanguineâ spirale 4. 5. C. 311
295 . *Madrasp.* edent. è nigro alboque fasciatum xi. 5. C. 307
296 . *Perficum* *Olivare* 17. 4. C. 290
297 *Concha Veneris Emuyacæ* albida &c. circulo croceo 6. 8. C.
298 . . parva, fulva circulis albis 8. 3. C. 297 (296
299 . . undata apicibus purpureis bimaculata 12. 7. C. 299
300 minor,

- 300 . minor, maculata & oculata 9. 7. C. 300
 301 *caryolepis* parva &c. ventre latè ferrato 30. 3. C. 301
 302 &c. ventre fessile plano 30. 9. C. 302
 303 *Cylindrus Madrasp.* medio nebuloso, claviculà carneà 19. 9.
 304 *Olivaris nigricans*, striis albis undatis 49. 9. 10. C. 303 (C. 315)
 305 . *Condor.* bullulis nigerrimis refertis 48. 14. C. 310
 306 *Patella Borneoca auriculata* tenuis 21. xi. C. 323
 307 *Perficoides argentea*, maculis nigris 10. 5. C. 305
 308 *Perficula lineis croceis circumdata* 8. 10. C. 304
 309 guttulis croceis lineata 8. 2. C. 303
 310 *Planorbis Indica* ex castaneo alboque &c. 1. 6. C. 287
 311 pulchrè undata, ventre elato albedo xi. 6. C. 291
 312 *Rombus albus*, fasciis flavis & meandris &c. 27. xi. C. 313
 313 fasciis ex albo nigroque catenatis 15. xi. C. 312
 314 . *Ind. Or.* spatiosis, catenis, fasciisque flavis &c. 28. 4. C. 314
 315 . *Luzon.* albis maculis nigro reticulo textus 47. xi. C. 317
 316 *Trochus fasciis verrucosis* è rubro albo nigro &c. 14. 10. C. 294
 317 *Indicus* è rubro pallido radiatus 20. 4. C. 295
 318 *Operculum Ind. Or.* superficie verrucoso 28. 12. C. 322
 319 *Umbilicus latus fuscus* 4. 9. C. 319
 320 . *Orient.* angustus, ferratus, fuscus 4. 8. C. 320
 321 *Unguis Mad.* fuscus, striatus, subtus rubicundus 16. 3. C. 321
 322 *Chama Madrasp.* alba, undis Castaneis 16. 9. C. 328
 323 *Tellina Madr.* fasciata & undata 13. 8. C. 327
 324 triquetra, medio fasciata &c. 19. xi. C. 329
 325 *Concha Luzon.* tubularis virescens 32. 9. C. 325
 326 . *Tiquasay* facies externa 45. 3. C. 326
 327 *Pecten Condor.* levis & lævis &c. 49. 13. C. 324
 328 *Pectunculus Condor.* fasciatus, undis Castaneis 48. 15. C. 330
 329 . *Venerus* 31. 9. C. 331
 330 *CORALLOIDES Philipp.* cærulea punctata 10. 12. C. 333
 331 epispongiosa Virgul. dilutè purp. 31. 2. C. 334
 332 paucioribus, punctis sanguinei color. 31. 12. C. 335
 333 *Rete Philip.* nigrum telis quadrang. &c. 32. 1. C. 336
 334 *Alcyonium Philip.* ramulis gelatinis implexis 32. 3. C. 337
 335 *Myriophyllum Ind. Or.* ramulosissimum 35. 12. C. 338
 336 *Alga Philip.* carnosa, edulis 27. 12. C. 339
 337 tubulosa, albida, navibus adhærens 9. 6. C. 340
 338 *Fungus Cinnabarinus Ligni Molavin.* 48. 1. C. 341
 339 *Lichen Madras.* Algoides, marginibus verrucosis xi. 1. C. 342
 340 *Volvulaceus Luzon.* Coluteæ foliis 48. 12. C. 343
 341 *Adiantum Philip.* fol. rotundo laciniato 4. 4. C. 344
 342 *Filix Luz.* pinnis alternis ferratis 48. 10. C. 345
 343 Salici æmulantibus 47. 10. C. 346
 344 *Asplenium Luz.* bicubitale, pinnis alternis 47. 9. C. 349
 345 *Ari* folio 50. 12. C. 351
 346 fol. aduncis viminibus adnascens 14. 14. C. 350
 347 *Ceterac Luz.* pinnis alternis glabris 49. 5. C. 348
 348 *Scand.* pinnis alternis dentatis 49. 4. C. 352
 349 *Hemionitis Luz.* minima, vario &c. folio 20. 3. C. 347
 350 *Osmunda Luz.* repens, Fumaricæ fol. 47. 8. C. 353 (C. 354)
 351 *Potamogeton Madr.* Phyllitidis fol. pulchrè venoso 32. xi.
 352 *Inhame Madr.* fol. binis pulchrè venosis 31. 6. C. 355
 353 *Blitum Madr.* Parietaricæ fol. spicatum 31. xi. C. 356
 354 *Nodiflora Manil.* Onobrichidis fol. Rutæ odore 20. 1. C. 357
 355 *Agrimonia Mad.* fol. rot. singul. subtus incano 32. 10. C. 358
 356 *Leonurus Madr.* fol. rigidis parvis hirtis 32. 12. C. 359
 357 *Tagetes Chin.* fol. undulatis fl. duplici &c. 12. 3. C. 360
 358 *Ranunculus glob. Chin.* fl. pleno Aurantiaco 19. 6. C. 361
 359 *Sagittaria Chin.* fol. ternis longissimis 19. 5. C. 362
 360 *Luffa Malab.* reticulata, fructu decortico. xi. 2. C. 363
 361 *Onagra minima Madr.* Pimpinella acut. fol. 5. 8. C. 364
 362 *Ornithopodium Madr.* Bupleuri fol. xi. 12. C. 365
 363 *Onobrychis Madr.* Numular. fol. *Barbarea* filiq. 26. 1. C. 366
 364 *Ornithopodii* filiquis 26. 4. C. 367
 365 *Lens Madr.* Elatines folio 30. xi. C. 369
 366 *Nummulariæ* folio maculato 33. 1. C. 368
 367 *Crotolaria Madr.* Pilosellæ folio 30. 10. C. 370
 368 *Melilorus Suraz.* minimus 10. 1. C. 371
 369 *Phaseolus Madr.* minimus Reniformis, Bezoar. 21. 9. C. 373
 370 sem. compresso, nigro alboque &c. 21. 8. C. 372
 371 *Ninsing. & Gensing.* Offic. 24. 8. C. 374
 372 *Androlæe Chusan.* Cortusæ Matth. fol. 33. 8. C. 375
 373 *Calceolus Philip.* pumila, Plantag. fol. &c. 19. 7. C. 376
 374 *Bontiana Luz.* geniculis inferioribus carinul. 44. 10. C. 377
 375 *Amomum verum Encalade* 20. 2. C. 381
 376 legitimum *Kameli* 41. 8. C. 382
 377 *Cardamomum Luz.* Coniformi *Ticala* dict. 18. 7. C. 378
 378 *Cassamuniar.* Offic. 27. 1. C. 380
 379 *Curcuma* Offic. 37. 9. C. 384
 380 *Zedoaria* Offic. 23. 1. C. 383
 381 *Zerumbet* Offic. 22. 3. C. 379

- 382 *Schenanthus Aven.* procumb. *Madrasp.* Bupleur. facie 2. 6.
 C. 385
 383 *Gr. Lagopoid. Chusan.* spicis cristat. pallescent. 31. 6. C. 385
 384 *Cuscuta Luz.* altera f. major 49. 12. C. 387
 385 *Radix Viziag.* fusca, sulcis rhomboid. 16. 1. C. 388
 386 *Anacardii Oriental.* Offic. fructus 40. 14. C. 389
 387 *Fructus Viziag.* globosus hexagon. corr. fusco 22. 1. C. 390
 388 *Balanti Philip.* arbor, umbilicato fol. 43. 1. C. 391
 389 *Coccifera Chus.* Coryli folio &c. 36. 7. C. 392
 390 *Angola Luz.* Aceris fol. 43. xi. C. 393
 391 *Sorbus Luz.* fol. ternis ferratis 44. xi. C. 394
 392 *Fructus* pentang. altè sulcatus unucleus 37. 8. C. 395
 393 *Champacca Philip.* fl. &c. Fructu stellato 24. 1. C. 396
 394 *Agnus Castus Crocod.* fol. glauco subrotundo 34. xi. C. 397
 395 *Cupressus Chusan.* Abietis folio 6. 3. C. 399
 396 *Nucleus Luzon.* Dactyli facie trispermos 38. 3. C. 400
 397 cylindraceus sulcatus extrem. punct. 38. 4. C. 406
 398 *Nux biforis* in 3 dehiscens putaminis partes 42. 4. C. 405
 399 *Naicensis* 1. corr. nigro, reticula candida &c. 42. 14. C. 418
 400 2. feris candidis convestita 42. 8. C. 410
 401 *Moschata* oblonga max. montis *Balate* 42. 10. C. 412
 402 *Arboris Hobom* quam & *Taligolas* vocant 45. 7. 8. C. 402
 403 *Luz.* fusca, zonâ pallidâ 37. xi. C. 409
 404 *Rottang. Luzon.* vulg. 39. 10. & a. C. 417
 405 fr. pyramid. majore *Labnit.* 39. xi. C. 418
 406 *Jasmini flore* Frutex *Philip.* &c. 42. 7. C. 403
 407 *Arbor Manil.* &c. cortice Emetico 19. 8. C. 408
 408 *Panguaguaon Arbor Philipp.* &c. 45. 12. C. 413
 409 *Pofoposo arbor Platani folio Philip.* 43. 2. C. 414
 410 *Pao de Cobra Lusit.* 42. 1. C. 419. *Ray* Kamel. 88. 6
 411 *Zapotl.* nigrum 43. 7. &c. C. 427. *Ray* Kam. 54. 4
 412 *Chin.* fructu Cinnabarino 45. 9. &c. *Ray* Kam. 54. 5
 413 *Fagara Chus.* Rhois Virgin. folio &c. 36. 8. C. 401
 414 *Rosa Chus.* glabra, Juniperi fructu 35. xi. C. 415
 415 *Vaccinia fortè Chus.* Laurocerasi fol. &c. 35. 7. C. 426
 416 *Ilicis foliis* exiguis Frutex *Orient.* 2. 8. C. 404. *M. P.* 250
 417 *Sambuco palustr.* affinis *Japon.* &c. fl. cerul. 36. 2. C. 416
 418 *Ricinus Chin.* Sebifera &c. 34. 3. C. 420. *M. P.* 965
 419 *Thea vulg.* porulenta 21. 10. C. 423
 420 *Radix formâ Cathedræ* &c. 21. 1. C. 424
 421 *Chin.* &c. fl. Rosaceo simplici 33. 4. C. 425
 422 *Tavacare Malab.* fl. albo &c. 16. 4. C. 421
 423 *Madr.* minor, corr. tenuissimo 16. 5. C. 422
 424 *Macer.* veterum 20. 5. C. 407. *Ray* H. P. 1779. c. 1
 425 *Lapis Chin.* Mayz referens 30. 8. C. 429

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- 430 *Mus Araneus Capensis* maximus 23. 9. C. 430
 431 *Grus Capens.* caudâ cristatâ 12. 12. C. 431
 432 *Coccothraustes Cap.* ruber, rostro hians 10. 7. C. 432
 433 *Tomineo Cap.* major, capite luteo 7. 9. C. 433
 434 *Anguis Cap.* argenteus maculatus 16. 12. C. 434
 435 *Cap.* tricolor 10. 3. C. 435
 436 *Papilio Cap.* flavelcens versicolor &c. 9. xi. C. 436
 437 *Cicada Cap.* variegata, margin. transparentibus 4. 1. C. 437
 438 *Locusta Cap.* alis inferioribus luteis 3. 6. C. 438
 439 *Proscarabeoides Cap.* singularis, pedib. plumosis 12. 1. C. 439
 440 *Araneoides Cap.* falcata lutescens &c. 12. xi. C. 440
 441 *Locusta-Talpa Cap.* pedibus longis 13. 7. C. 441
 442 *Capricornus niger Cap.* sulcatus, 6 maculis &c. 24. xi. C. 443
 443 id. immaculatus. 444
 444 *Scarabeus Cap.* pilosus, vaginis rubris &c. 8. 6. C. 442
 445 *Scolopendra Cap.* major lutescens, caudâ longiore 13. 3. C. 446
 446 *Hippuris Coralloides carnea Capensis* &c. 3. 10. C. 447
 447 *Alga verrucosa Capensis* 9. 14. C. 448
 448 *Fungus Cap.* subtus porosus 4. xi. C. 449
 449 *Gnaphalium Cap.* spicatum, Alysi fol. 7. 1. C. 450
 450 *Filago Cap.* minor spicata 8. 12. C. 451
 451 *Argyrocome Cap.* Thymi foliis 7. 3. C. 452. *M. P.* 144
 452 fol. incanis lobatis 30. 12. C. 5. 453
 453 *Xeranthemum speciosum Cap.* fl. albo maximo 1. 9. C. 454
 454 *Cap.* Tarton raire folio 5. 10. C. 455
 455 *Jacea Cap.* Gnaphalii folio 6. xi. C. 457
 456 fol. parvo hirta &c. 25. 6. C. 456
 457 *Conophoros Cap.* Pini fol. 25. 7. C. 462
 458 fol. parvis obtusis 6. 4. C. 461. *M. P.* 604
 459 *Ageratum Cap.* Crithmi fol. &c. 34. 1. C. 458
 460 *Abrotanoides Cap.* Ericæ fol. 5. 2. C. 465
 461 *Breyniana Cap.* Cineroides 3. 9. C. 466
 462 capitulis albis plumosis 5. 4. C. 464
 463 *Eupatoroides Cap.* capitatus 8. 1. C. 463
 464 *Lewisanus Cap.* Serpilli fol. 5. 7. C. 470

- 466 *Hermannia Cap.* Altheæ fol. 34. 2. C. 459
 467 *Genista tinctoria Cap.* purpurea &c. 5. xi. C. 460
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LECTORI BENEVOLO.

PRIMO Decadum nostrarum Volumine, jam ad umbilicum producto, simul cum hoc Classico & Topico earum Catalogo: Amicorum suorum hortatus sum altero Volumine progredi, & ut Satisfactioni & Votis Novorum Rescriptorum & Patronorum respondeam; Paratus sum ad tradendas Triginta alias Tabulas singulis Personis Aureum Guineæ dictum deponentibus & Spe festinantis incitamenti pradii, reliquas in lucem dabo, in quibus multa Rara & Nova elucescent, ex omni Mundi plaga acquisita.

CATALOGUS CLASSICUS & TOPICUS,

Omnium Rerum *Figurarum* in V Decadibus,

Seu SECUNDO VOLUME

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Singulis ad proprias *Tabulas* & *Numeros* relatis.

A JACOBO PETIVER, Pharmacop. LONDIN. & Regiæ Societat. Socio.

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 243 . *Luz.* marmoratus, ore carneo & nigro 98. 10
 244 . *Moluccens.* levis, ex rufo alboque marmoratus 98. 8
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 250 *Oxyrinchus Indic.* orbibus nodosis & catenatis 56. 6
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[1]
GAZOPHYLACII NATURÆ & ARTIS
DECAS SEXTA.

*In quâ Animalia, Quadrupeda, Pisces, Aves, Reptilia, Insecta, Vegetabilia, Fossilia
 & Lapides Figurâ insignes, Corpora Marina, Stirpes Minerales è Terrâ eruta, &c.*

*Item Antiquaria, Numismata, Gemmæ excisæ, Lucernæ, Urnæ, Instrumenta varia,
 Machinæ, Busta, Effigies clarorum Virorum; omniaque Arte producta.
 Descriptionibus brevibus & Iconibus illustrantur.*

PATRONIS suis & MOECENATIBUS D.D.D.

JACOBUS PETIVER. S. R. S.

ENGLISH Animals, Vegetables, and Fossils.

T A B. LI. Fig.

THE Effigies of that Worthy and Learned Naturalist Mr. John Ray done a little before his Death. He was Born A. D. 1627. at Black Notley in Essex, where he dyed Jan. 17. 1704. Aged 77 Years, See a Catalogue of the greatest part of his WORKS annex'd to his *Methodus Plant. emendata & aucta.* Cat. n°. 1.

2. Ivy-leaved Belflower.

Mr. Jacob Bobart, first sent me this elegant Plant gathered about Oxford; it is also found in the West and North Parts of England.

3. Mr. Doody's netted Crow-silk.

First discovered by that memorable NATURALIST near Westminster and in the Rivulets on Hounslow-heath, where I have gathered it with him.

4. Butterfish, Nine Eyes Cat. Class. and Topic. 4.

Mr. Charles Dell sent me this from Falmouth, where its call'd Nine Eyes from its Spots.

5. Durham Sea Snail Cat. 7.

Call'd so there and in Yorkshire from its Slyminess. It's sometimes caught 4 or 5 Miles from the Sea in the Mouths of Salt Water Rivers in those Parts.

6. Godarts streak'd yellow Moth, Cat. 21.

Mr. Tillman Bobart gave me this Moth, and is the only one I have yet seen; its Caterpillar feeds on Elder Leaves.

7. Pin-headed Cobweb Mushroom, Cat. 117.

Dr. Charles Goodall President of the College of Physicians sent me this, which he observ'd to spring from Flower and Water putrefied.

8. Flat thin Scallop Slate, Cat. 69.

This elegant Slate that curious Naturalist Dr. Richard Richardson sent me, dug out of the Coal-pits about Halifax in Yorkshire.

9. Godarts Willow Grayling, Cat. 20.

The Caterpillar of this Moth is found in the Bodies of rotten Willows.

10. A Pogge Cat. Class. and Top. 2.

It is so call'd by the Fishermen in Durham and Yorkshire. Our curious Brother Mr. Sam. Dale Apothecary at Brain-tree in Essex, first sent me one of these Fish dried.

11. Cumbers Egg-stone, Cat. 51.

First found by that Person about Newton-grange in Yorkshire.

12. Great Prickle-back, Cat. 5.

About Hamburg they are call'd Steinbicker and in Hillingland Eyskraper. Mr. Charles Dell sent me this rare Fish caught about Falmouth in Cornwall.

T A B. LII.

Spanish and Mediterranean Shells and Plants.

Granada Furze, with a hoary Cod. Cat. 175.

It flowers in March on the Granada Hills, where they call it Molino.

2. Small Autumnal Daffodil. Cat. 174.

In October it bears a 6 leaved white Flower, with a small yellow Cup; it grows on the River Ana in Algarve, where its call'd Tonada.

3. Small Salamanca Eryngo Cat. 163.

Grows frequently on the Hills there, about a Span high and flourishes after Harvest.

4. Portugal Pilewort with notch'd Leaves, Cat. 165.

Commonly found in the Vineyards about Lisbon, it's call'd there by some Montan, Flowers in November, and holds its Leaves all Winter; Mr. William Brown Surgeon tells me they eat the Leaves as a Sallet.

5. Small Spanish Purple Thrum-flower, Cat. 172.

Grows a Span high on the stony Hills of Salamanca flowering in May.

6. Button headed Castile Rocket Cat. 171.

It flowers in May, they are 4 leaved, deeply cut and yellow. Grows a Foot and half high by Path Ways, and Dunghilly Places.

7. Small white Lisbon Cockle, Cat. 154.

On the fairest of these may be seen fine Waved striae resembling a File.

8 Small Naples Cockle, Cat. 153.

The largest of these weigh but 15 Grains. The Reverend Father Bonan. S. J. at Rome sent me this and the last.

9. Small thick Naples Cockle Cat. 155.

Like the last but much thicker with reddish Spots. The common Size weighs about 36 Grains. Mr. William Brown Surgeon, found these at Gibraltar and F. Bonan at Tarenta.

10. Pantalera Chestnut Gowry, Cat. 151.

Found on the Shores there, and sent me with the Two last. Its of the Size of the Figure and weighed 3½.

11. Great Pisa Button Shell, Cat. 144.

Flatter then our Hedge Snail and larger. Mr. Burdet Surgeon brought me this and the next from Pisa.

12. Small Pisa Button Shell, Cat. 145.

Like our Garden Snail but less. Dr. Sherard found this about Rome and Mr. Burdet at Pisa.

13. Small Gibraltar Ruggle, Cat. 149.

The Lip is generally tipt with blew. Mr. Brown gathered this at Gibraltar, they are also found on the Adriatick and French Mediterranean Shores.

14. Tiny Ruggle, Cat. 148.

Much less than the last, and found in the same Places.

T A B. LIII.

INDIAN Birds, Shells and Plants.

BEngal Amadavad, Cat. 181.

A small speckled Bird, brought in Cages from the Bay of Bengal, Madras, &c.

2. The King-bird of Paradise, Cat. 183.

Brought from the Molucca Islands, and rarely to be seen here, but in the Cabinets of the most Curious, as with Dr. Sloan and in the Repository of the Royal Society.

L. 1700

3. *Luzon 7 eyed Argus*, Cat. 198.
This above is mostly black, with whitish Fields, it's finely eyed underneath as you may see *Tab. 27. Fig. 6.*
4. *Indian Knobble Shell*, Cat. 230.
An elegant golden Shell with white Knobs.
5. *Grafs girdled Indian Unicorn*, Cat. 263.
A beautiful Shell and rarely met with.
6. *Small Hebrew Gowry*, Cat. 272.
This is netted with *Hebrew* like Characters and comes from many Parts of *India*.
7. *Thin Indian Ear-cap*, Cat. 269.
Mr. Charles Perry brought me this from *India*.
8. *Small Indian Canoe-shell*, Cat. 270.
Brought by the same Hand. It's of an odd Shape, and sticks to larger Shells.
9. *Great Indian furrowed Worm-shell*, Cat. 266.
This is the *Entalium* or *Entaglia* of the *Shops*. I take it to be the Case of a sort of a *Scolopendria* or other *Sea-worm*.
10. *Malabar Fennel Randall*, Cat. 344.
This has single naked Heads, each growing out of a sheathed Pedicle. Found in watry places.
11. *Malabar Arrow Grafs*, Cat. 323.
Grows in sandy Soil. Given with *Asa fatida* and *Ginger*, it eases Gripes in the Bowels.
12. *Flat, Pearleaved Malabar Tail Pepper*, Cat. 382.
This is constantly bearing Fruit, and when once fix'd to a Tree, it rarely leaves it even tho' dead.

TAB. LIV.

East India Animals and Plants.

1. *Indian Forked Tail*, Cat. 182.
This Bird's Tail opens and shuts like a *Taylor's Sheers*, and for that reason the *Portuguese* call it *Rabo Forcado*.
2. *Sea Divel. Zee Duyvel Belg.* Cat. 188.
So call'd from it's frightful Shape.
3. *Araneus Luzon. rarus, niger, splendens.*
The Forcipes or Pincers are so long and large that when joined it's not easy to distinguish the Head from the Tail.
4. *Araneus Luz. ex albo & griseo mixtus.*
The Spaniards at *Luzon* call this *Spider* *Cayman de las Moscas*, because he catches Flies as the *Crocodile* does his Prey. He lives in the Chinks of Walls.
5. *Pectunculus Borneocus striis altè incis.*
This neat Cockle with *Fig. 7.* Mr. Rance Surgeon brought me from *Borneo*.
6. *Grey eyed Indian Whelk*, Cat. 231.
Is a rare Shell the bigger Knobs grey the less Brown.
7. *Borneo Thimble Grater*, Cat. 268.
The outside is rough like a Grater, and hollow like a Cap or Thimble.
8. *Malabar Hart's-tongue* with grassy Leaves, Cat. 319.
This elegant Fern grows in Rocky places.
9. *Plainicandent Malabar Fern*, Cat. 313.
This has whole Leaves and climbs about Trees.
10. *Round leaved Malabar Venus-hair*, Cat. 311.
It's large notch'd Leaves on single Stalks, distinguish it from others.
11. *Star leaved Malabar Hedge-Hyffop.* Cat. 361.
This pretty little Plant grows in moist sandy places.
- 12, 13. *Sweet Scarlet Malabar Bontian*, Cat. 366.
The *Hortus Malabar* says these *Miscletoes* are endued with the Virtues of the Trees they grow on.

TAB LV.

Persia Trees, Herbs, Shells, &c.

1. *Long tail'd Indian Parrot-Sparrow*, Cat. 184.
The Body exceeds not a Sparrow's, it's of divers colours, as blew, green and yellow, its Tail black composed of 4 narrow Feathers 9 inches long.
2. *A Small Indian Shell with grey like Scales*, Cat. 232.
3. *Another with black and white Lifts*, Cat. 233.
4. *Another deeply furrowed, mark'd with black and white*, Cat. 227.
5. *A sort of Winckletrope with Ribs finely chained*, Cat. 234.
6. *A Unicorn Shell with Bugle Twirls*, Cat. 262.
7. *The Pigmies Trumpet*, Cat. 259.

8. *Aladinul or Asdalbul*, Cat. 375.
This Herb has a sweet white Flower, on which grows the Resemblance of a Cow's head, and the Persians who adore this Beast, adorn it's Head with it.
9. *Bulilla so call'd by the Persians*, Cat. 364.
It's Fruit is very hard, round and red like *Corall Beads*, they give them in Powder to stop Blood, it also helps Weakness of Digestion.
10. *A Persian Tree call'd Archam* Cat. 388.
The Leaves are trifid, the Flower small and white, it's Fruit scaly, very good in Fevers, the Root is call'd *Mater Dei* or *God's Mother*.
11. *A Thorney Tree with a very pleasant Flower and Fruit*, in *Persia* where it grows, they call it *Carda*. Cat. 390.
12. *Feather-leaved Malabar Cistus*, Cat. 369.
This pretty Plant grows in sandy places, with a bluish coloured Flower.

TAB. LVI.

Persia Plants and India Shells.

1. *Small Indian Musick Shell*, Cat. 246.
A pretty whitish Shell chained with black.
2. *White Indian Cockle with golden Rays*, Cat. 295.
3. *Black scaled Indian Nerit*, Cat. 228.
This shining Shell has 3 Girdles of white and black Scales set alternately.
4. *Indian furrowed Unicorn with a wry Mouth* Cat. 264.
5. *India Lattice shell*, Cat. 235.
These are of divers Colours sometimes white, black and greenish, its netted like coarse Linnen.
6. *Knotty chained Indian Spindle Shell*, Cat. 250.
Partly coloured and wrinkled with many Folds and Knots.
7. *A broad headed, thick blackish Shell with hairy Girds*. Cat. 258.
8. *Star-leaved Persia Chickweed*, Cat. 381.
Has hoary Leaves at each Joynt spotted with white, grows in *Persia* and flowers there in *September*, each consists of 5 small purplish Leaves.
9. *Persian Ardabar*, Cat. 373.
It has 2 Leaves very particular, resembling a Chopping-knife, whence rises a thorny Stalk top with a Cluster of Berries, first green, then reddish and pale in the middle.
10. *Persian Kanadi* Cat. 365.
They adorn their Houses with the Flowers of this Bulb, which are yellow, and smell very sweet.
11. *Flos Cicatrix seu Buebenda Persicis*, Cat. 389.
The Leaves are trifid, the Flowers inwardly yellow, with a very red Bottom, these stop Blood and the Root is given in Pains of the Kidnies.
12. *Lupine-leaved Persian Dragons* Cat. 374.
Its Stalk and Hood are yellow, speckled with red; they apply the Root to Venereal Sores, and the biting of Serpents with Success.

TAB. LVII.

Cape Plants, Shells and Reptiles.

1. *Cape Inga with socket Leaves*, Cat. 532.
2, 3. Its Fruit and Seed. The first mostly red. This strange Plant and the 4 next are Figured from those most curious Paintings, which the States of *Amsterdam* presented with many others to the most Reverend Father in God *Henry Lord Bishop of LONDON*, when his Lordship was at the Congress there, A. D. 1677.
4. *Red Cape Cherry with a blunt Leaf*, Cat. 527.
The Stone yellowish.
5. *Blew Cape Cherry with a pointed Leaf*, Cat. 526.
The Fruit first green, then blewish inclining to black, the Stone whitish.
6. *Prickly tern-feathered Cape Sparagus*, Cat. 443.
The Branches generally grow Three together, rarely Four. The Berries scarlet.
7. *Thick-rooted Cape Bermudian*, Cat. 489.
8. The Root.
These Flowers are small and white.
9. *Deep furrowed Cape Muscle*, Cat. 418.
I received this from Mr. *John Starromberg* and others.

10. *Cape Button Shell*, Cat. 413.
Like our common *Hedge-shell*, but somewhat bigger and thicker.
11. *Cape Lattice-shell*, Cat. 412.
It's somewhat oval or checkered, Mr. Perry and Mr. Stocker have brought me this from the *Cape*.
12. *Warty Cape Shell-stopple*, Cat. 415.
13. Its revers. These are pretty common, but as yet I know not to what Shell it's a Cover.
14. *Small Cape Chain twirl'd Top-shell*, Cat. 414.
This has a small *Navel* and pearly within
15. *Cross-back'd Cape Lizard* Cat. 402.
A very particular Animal which I should be glad to see. I figured it from *Father Tachard's Cape designs*. It's less venomous than the next.
16. *Cape Ceraffes or Horn Snake*, Cat. 404.
I have a *Painting* of this, and should be glad to see the *Serpent* it self. Its *Poison* is said to be extremely dangerous.

T A B. LVIII.

Cape Lizards, Plants and Insects.

1. **T**ALL, *Cape Heart's-ease*, Cat. 525.
The *Leaves* are long serrated, grow opposite and below double, its *Flowers* are finely mark'd with white, red, yellow and somewhat of blew.
2. *Single, hooded Cape Gladiole*, Cat. 505.
The *Flower* white mix'd with red, the *apices* and 3 *tips* below are yellow.
3. *Cape Saffron with a knotty stalk*, Cat. 490.
The *Flower* blew and white with red *Spots*, the *stalk* purple. These 3 elegant *Plants* were copied, from the most Reverend the *Bishop of London* his *Cape Paintings*.
4. *Triangular Tendril Bryar*, Cat. 523.
A very odd *Anomalous Plant*, yet what confirms its *Veracity*, is another *Painting* of it, (besides that I saw in my *Lord the Bishop of London's Book*) which I purchased of Mr. Dolneus a *German Surgeon* amongst many other *Cape Paintings* I have figured in the 9th Decade, viz. from *Tab. 81. to 91* in this second *Volume*.
5. *Small black and red Cape Tick*, Cat. 411.
The *Body* Hatred, speckled with black, the *Legs* and *Horns* all black.
6. *Shining Cape Steel Wasp* Cat. 407.
The *Face* and *Horns* orange, the *Legs*, *Back* and *Body* black, the *Wings* shine like polished *Steel*.
7. *Cape Diana Moth*, Cat. 409.
The upper *Wings* finely marbled with red, white and black, the lower wholly orange.
8. *Small green Cape Goat Beetle*, Cat. 406.
Its *Horns* black, very long and slender, the *Body* much like our *Cantharides* but slenderer, the under *Wings* blackish. These 4 last *Insects* Mr. John Starremburgh sent me from the *Cape* of good *Hope*.
9. *Soft-feathered Cape Coralline* Cat. 420.
This elegant *Sea Moss* is not brittle like the *Shop Coralline*.
10. *Cape Horsetail Coralline*, Cat. 421.
This and the last Mr. John Starremburgh sent me with many other *Sea Productions* not yet figured.
11. *Small Cape Salamander*, Cat. 401.
This is like our *European* but not so large. It squeaks like a *Rat*.
12. *Rough-scaled Cape Lizard*, Cat. 403.
This when hurt, raises up all his *Scales* and cries like a *Child*.

T A B. LIX.

Brazil Animals, Insects and Plants.

1. **W**ide-mouthed *Brazil Swallow*, Cat. 542.
It's mostly black, finely speckled with white, and some yellow, its *Tail* 2 *Inches* long, and very fine.
2. *Brazil Sand Eel*, Cat. 543
About 9 *Inches* long; very good *Meat*; being white and short.

3. *Brazil Bristle Fin*, Cat. 546.
A broad flat *Fish*, with black shining silky *Scales*, some edged with yellow, *Fins* black, has a purple *Ring* about its *Mouth*.
4. *Blewtail'd Brazil Lizzard*, Cat. 534.
Has a squarish *Body* very slick and smooth, black *Eyes*, *Back* whitish, but *Sides*, *Legs*, and *Head* brown.
5. *Crofs Goat-Chaffer of Brazil*, Cat. 552.
Call'd by the *Natives Quici*, its *Body* brown, crofs'd with yellow, *Horns* yellow and black.
6. *Brazil Tortoise Beetle*, Cat. 556.
Its *Legs* and *Body* of a golden green, with *Copper Edges*, it creeps softly, and is slow to fly. The *Natives* call it *Tamberoa*.
7. *Brazil Snap-beetle*, Cat. 554.
Call'd there *Quici miri*, its *Shoulders* black, with yellow *Edges* and *Crustwings* rib'd with black.
8. A *Shell* found on the *Shores of Brazil*, it's smooth and shining, girdled with tawney and grey. Cat. 578.
9. The true *Ipecacuanha* or *Disfenterick Vomit*, Cat. 592.
Is a low *Plant* with 6 or 8 foot veiny *Leaves*, amidst these comes a small *Head* of 12 or more 5 leaved white *Flowers*, which turn into dark red *Berries* with 2 small *Seed* in each. It grows in moist *Woods*.
10. *Brazil Star Parsley*, Cat. 589.
From the *Disposition* of its *Leaves* and the *Scent* of its *Root*. They call it there *Anapabaca*, I despaired ever seeing this elegant *Plant*, somewhat doubting its *Existence*, until very lately being at *Amsterdam* Dr. Henry Ruysob MD. a very curious *Naturalist*, and *Son* of that celebrated *Professor*, was pleased to present me with it and many other *Rarities*.
11. *Jointed Brazil Inga*, Cat. 597.
Call'd by the *Dutch* there *Lotus*, it bears a pleasant edible *Fruit* ripe in *May*.
12. The *Leaves* of this *Brazil Plant* are thick as *Acers*, the *Edges* notch'd and of a dark red. Cat. 594.

T A B. LX.

Brazil Fish, Insects and Vegetables.

1. **S**EA Porcupine, Cat. 547.
This thorny *Fish*, is a sort of *Sea Hedge-hog* call'd in *Brazil* *Guamajacu guará*, and by the *Portuguese* there *Peixe Porco* and *Diabe*. Between its *Prickles* it's spotted with black, there are several *forts* in those *Seas*.
2. *Small Brazil Quill Locust*, Cat. 551.
Call'd there *Arumatia*. It's greenish with spotted *Legs* the *Body* like a *Birch-twigg* long and slender.
3. A stinking sort of *Bug* with a yellow *Head* and green *Sheath-wings* streak'd underneath with black, Cat. 553.
4. *Speckled Brazil Tick*, Cat. 555.
Stinks like a *Bug*, it's edged with yellow, and spotted with that blew and brown, they call it *Apeve*.
5. *Steel wasp*. *Paipai guacu* *Brazil*. Cat. 557.
A sort of *Wasp* or *Hornet* shining like polished *Steel*.
6. A small *Liver* coloured squarish bodied *Crab*, with dark red *Pincers*, this the *Brazilians* call *Carara una*. Cat. 539.
7. A small *Nerit-shell*, with 5 whitish *Rays* bounded with black *Lifts*, found on the *Shores of Fernambuck* Cat. 576.
8. *Brazil Sea-berry*, Cat. 596.
Its *Leaves* very green, juicy, and thick like *Purslain*, but larger, with white 5 leaved *Flowers*, the *Fruit* black, shining and moist, with a *Plumb* like *Stone*.
9. *Brazil Pepper Cherry*, Cat. 595.
Call'd there *Ibipitanga*. Its *Fruit* scarlet with 8 *Furrows*, tastes bitterish and something hot like *Capsicum* or *Cod Pepper*.
10. A sort of *Brazil Bindweed* with cordated *Leaves* and a white 5 cornered *Flower*, Cat. 590.
11. A peculiar sort of *Brazil Herb*, with spongey hollow *stalks*, from the midst of which grows one cordated *Leaf* and from thence as out of a *Sheath* rises a *Spike* of small 6 leaved purple *Flowers*, Cat. 593.
12. A whitish flowered *Arum* or *Wake Robin*, with cordated narrow pointed *Leaves* but not milky as the other *Brazil* sorts are, Cat. 591.

PLANTS already Engraved in Mr. Petiver's ENGLISH HERBAL.

Herbs with BLINK Flowers

S E C T. I.

Male Hops Ray Hift. Plant. 156. Syn. 52. T. 1. F. 1.
 Female Hops. Ray Hift. & Syn. id. Tab. 1. Fig. 2.
 Male Hemp. Ray H. Pl. 158. 1. Syn. 53. Tab. 2. Fig. 3.
 Female Hemp. Ray id. Tab. 1. Fig. 4.
 Male Dog's Mercury R. 163. 1. Syn. 53. 1. T. 1. 5.
 Female Dog's Mercury T. 1. 6.
 Male French Mercury R. 163. 2. S. 54. T. 1. 7.
 Female French Mercury R. 163. 2. S. 54. T. 1. 8.
 Great Nettle Ray 160. 4. S. 54. 1. T. 1. 9.
 Small Nettle Ray 161. 5. S. 54. T. 1. 10.
 Roman Nettle Ray 161. 6. S. 54. 3. T. 1. 11.
 Small Burdock Ray. 165. 1. S. 55. T. 1. 12.
 Great Water Dock Ray 177. 4. Syn. 55. 1. Tab. 2. 1.
 Curl'd Sharp Dock Ray 173. 6. Syn. 55. 3. T. 2. 2.
 Smooth Sharp Dock Ray 173. 7. Syn. 56. 4. T. 2. 3.
 Small sharp Dock Ray 174. Syn. 56. Tab. 2. 4.
 Blood vein'd Dock Ray 174. 10. Syn. 56. T. 2. 5.
 Bloodless Dock Tab. 2. Fig. 6.
 Gold Dock Tab. 2. Fig. 7.
 Bur Gold Dock Ray 174. 8. Syn. 56. 6. Tab. 2. 8.
 Broad Dock Ray 173. 5. Syn. 55. 2. Tab. 2. 9.
 Fiddle Dock Ray 174. 9. Syn. 56. 5. Tab. 2. 10.
 Buck-wheat Ray 182. 1. Syn. 57. 1. Tab. 2. 11.
 Trailing Buck-wheat Ray 182. 2. Syn. 57. 2. Tab. 2. 12.
 Common Sorrel Ray 178. 1. Syn. 56. 8. Tab. 3. 1.
 Sheep's Sorrel Ray 180. 14. Syn. 56. 9.
 Barren Sheep's Sorrel T. 3. 3.
 Welch Sorrel Ray Syn. 57. 10. T. 3. 4.
 Common Asmart Ray 182. Syn. 58. 1. Tab. 3. 5.
 Creeping Asmart Ray 183. 3. Syn. 58. 2. Tab. 3. 6.
 Spotted Asmart Ray 183. 2. Syn. 58. 3. Tab. 3. 7.
 Spotted hoary Asmart Tab. 3. 8.
 Silver Asmart Tab. 3. 9.
 White branched Asmart Tab. 3. 10.
 Bobarts Asmart Ray Syn. 58. Tab. 3. 11.
 Amphibious Asmart Ray 184. 6. Syn. 58. 4. Tab. 3. 12.
 Common Plantain Ray 876. 1. Syn. 184. 1. Tab. 4. 1.
 Dented Plantain Tab. 4. 2.
 Hoary Plantain Ray 877. 5. Syn. 184. 2. Tab. 4. 3.
 Rose and spiked Plantain R. 876. Tab. 4. 4.
 Before Plantain Ray 877. 4. Syn. 185. 3. Tab. 4. 5.
 Common Ribwort Ray 877. 7. Syn. 185. 4. Tab. 4. 6.
 Mountain Ribwort Ray Syn. 185. 7. Tab. 4. 7.
 Childing Ribwort Ray 877. 1. Tab. 4. 8.
 Sea Plantain Ray 880. 5. Syn. 185. 5. Tab. 4. 9.
 Bucks-horn Plantain Ray 879. 3. Syn. 185. 6. Tab. 4. 10.
 Great Burnet Ray 402. 2. Syn. 100. Tab. 4. 11.
 Small Burnet Ray 401. 1. Syn. 100. Tab. 4. 12.
 Common Bistort Ray 186. 1. Syn. 59. Tab. 5. 1.
 Small Bistort Ray 187. 4. Syn. 60. 2. Tab. 5. 2.
 Welch Bistort Ray 187. 6. Syn. 60. 3. Tab. 5. 3.
 Broad Pondweed Ray 188. 1. Syn. 60. 1. Tab. 5. 4.
 Long Pondweed Ray 188. 2. Syn. 61. 2. Tab. 5. 5.
 Round Pondweed Ray 188. 3. Syn. 61. 3. Tab. 5. 6.
 Heart Pondweed Tab. 5. Fig. 7.
 Plain Pondweed Ray 189. 4. Syn. 61. 4. Tab. 5. 8.
 Curl'd Pondweed Ray 189. 5. Syn. 61. 5. Tab. 5. 9.
 Broad Grass Pondweed Tab. 5. Fig. 10.
 Narrow Grass Pondweed Tab. 5. Fig. 11.

Fine Grass Pondweed Ray 189. 7. Syn. 61. 7. Tab. 5. 12.
 Fennel Pondweed Tab. 5. Fig. 13.
 Tassel Pondweed Ray 190. 10. Syn. 62. 10. Tab. 6. 1.
 Horned Pondweed Ray 190. 13. Syn. 281. Tab. 6. 2.
 Water Starwort Ray 1323. Syn. 280. 1. Tab. 6. 3.
 Long Water Starwort Ray Syn. 280. 2. Tab. 6. 4.
 Feather Pondweed Ray 191. Syn. 279. Tab. 6. 5.
 Fine Feather Pondweed Tab. 6. Fig. 6.
 Millfoil Pondweed Ray. 191. 2. Syn. 280. 5. Tab. 6. 7.
 Knotted Pondweed Ray 1322. 1. Syn. 279. Tab. 6. 8.
 Golden Saxifrage Ray 207. 1. Syn. 66. Tab. 6. 9.
 Long Golden Saxifrage Ray 207. 2. Syn. 66. Tab. 6. 10.
 Cornwal Pennywort Ray. Syn. 211. 14. Tab. 6. 11.
 Marsh Pennywort Ray 1323. Syn. 280. Tab. 6. 12.
 Delt Orrach Ray 192. 3. Syn. 62. 1. Tab. 7. 1.
 Delt Sea Orrach Ray 193. 10. Syn. 63. 4. Tab. 7. 2.
 Frosty Sea Orrach Ray 193. 8. Syn. 63. 5. Tab. 7. 3.
 Jagged long Orrach Ray 192. 6. S. 62. 3. Tab. 7. 4.
 Spear Orrach Ray 192. 4. S. 62. 2. Tab. 7. 5.
 Grass Sea Orrach Tab. 7. 6.
 Sea Purslain Ray 195. 3. Syn. 63. 8. Tab. 7. 7.
 Heart Sea Purslain Ray Syn. 63. 7. Tab. 7. 8.
 Small Garden Blite Ray 200. Tab. 7. 9.
 All seed Blite Ray 196. 2. Syn. 65. 11. Tab. 7. 10.
 Stinking Orrach Ray 198. 11. Syn. 64. 6. Tab. 7. 11.
 Wild Spinage Ray 195. 1. Syn. 64. 8. Tab. 7. 12.
 Rands Oak Blite Tab. 8. 1.
 Frost Blite Ray 198. 8. Tab. 8. 2.
 Buddle's Fig Blite Tab. 8. 3.
 Buddle's round Blite Tab. 8. 4.
 Thick thinning Blite Ray Syn. 64. 5. Tab. 8. 5.
 Sharp poinred Blite Ray 197. 9. Syn. 64. 3. Tab. 8. 6.
 Maple Blite Ray 8. 7.
 Broad pointed Blite Tab. 8. 8.
 Sea Beet Ray 204. 3. Syn. 65. Tab. 8. 9.
 Wall Pellitory Ray 206. 1. Syn. 66. Tab. 8. 10.
 Tree Stonecrop Ray 199. 17. Syn. 65. 10. Tab. 8. 11.
 Shrub Stonecrop Ray 199. 16. Syn. 65. 9. Tab. 8. 12.
 Small Glasswort Ray 198. 14. Syn. 64. 7. Tab. 9. Fig. 1.
 Prickly Glasswort Ray 212. 2. Syn. 67. 3. Tab. 9. Fig. 2.
 Small jointed Glasswort Ray Syn. 67. 1. Tab. 9. Fig. 3.
 Woody jointed Glasswort Ray 211. 1. Syn. 67. 2. Tab. 9. 4.
 Bastard Toad-flax Ray 399. 7. Syn. 99. Tab. 9. Fig. 5.
 Upright Knawell Tab. 9. 6.
 Spreading Knawell Ray 213. 1. Syn. 68. 1. Tab. 9. 7.
 Pepper Grass Ray 1325. 10. Syn. 281. Tab. 9. 8.
 Ladies Mantle Ray 208. 1. Syn. 66. Tab. 9. 9.
 Small Ladies Mantle Ray 202. 2. Tab. 9. 10.
 Silver Ladies Mantle Ray 209. 4. Syn. 66. Tab. 9. 11.
 Parsly Pier Ray 209. 14. Syn. 67. Tab. 9. 12.
 Common Knotgrass Ray 184. 1. Tab. 10. 1.
 Thick set Knotgrass Tab. 10. 2.
 Short leaved Knotgrass Tab. 10. 3.
 Narrow Knotgrass Tab. 10. 4.
 Sea Knotgrass Ray 185. 2. Syn. 59. 2. Tab. 10. 5.
 Newton's Knotgrass Tab. 10. 6.
 Whorl'd Knotgrass Ray 214. 3. Syn. 68. Tab. 10. 7.
 Valentia Knotgrass Ray 215. 8. Tab. 10. 8.
 Smooth Rupture-wort Ray 214. 6. Syn. 69. Tab. 10. 9.
 Hoary Rupture-wort Tab. 10. 10.
 Sea-heath Ray 1716. 15. Syn. 314. 5. Tab. 10. 11.
 Blink's Ray. 1035. 26. Syn. 211. 14. Tab. 10. 12.

N B. The Figures of all these Plants done on Copper Plates are ready to be delivered upon paying 10 s. in Hand, and in May next, on depositing a Guinea they shall be made up 600. and 10 s. more, when they amount to One Thousand Trees and Herbs, all which shall be of the Growth of Great Britain and Ireland. Such Generous Patrons as will be pleased to give one Guinea in Hand, instead of 10 s. to forward this Work, shall have a TABLE Dedicated to them.

GAZOPHYLACII NATURÆ & ARTIS

DECAS SEPTIMA & OCTAVA.

In quâ Animalia, Quadrupeda, Aves, Pisces, Reptilia, Insecta, Vegetabilia, Fossilia & Lapides Figurâ insignes, Corpora Marina, Stirpes Minerales è Terrâ eruta, &c.

Item Antiquaria, Numismata, Gemmæ excisæ, Lucernæ, Urnæ, Instrumenta varia, Machinæ, Busta, Effigies clarorum Virorum, omniaque Arte producta.

Descriptionibus brevibus & Iconibus illustrantur.

PATRONIS suis & MOECENATIBUS D.D.D.

JACOBUS PETIVER. S. K. S.

Tab. 61. **C**OMMON white-veined BUTTERFLY with single Spots, Cat. Topic. & Classic. N°. 7. I suppose this to be the Male to Tab. 62. Fig. 4. or at least a Variety. Very common in Fields and Meadows most part of the Summer.

2. Luzone Fern, Cat. 310. The Peculiarity of these Leaves, are to have the upper half only pounc'd.

3. A Luzone Fern with many narrow Segments, wholly pounc'd underneath, Cat. 312. Kam. Ray App. Vol. 3. p. 2. pl. 8.

4. Luzone Harts-tongue with Leaves a Cubit long, an Inch broad, and pounc'd from top to bottom, Cat. 307.

5. Cabcabun Luzonensibus. Like the last, but with Leaves much shorter, it grows on the Zapotl Trees, Cat. 306.

6. Great flat Mompelie Button Shell, Cat. 146. The late Dr. Lister brought me this from France. The curious Dr. Sherard has since sent it from Smyrna; its Navel as large as a Curran, and peirces to the Head of the Shell.

7. Spout-mouth'd Condore Button-shell, Cat. 214. The Navel very large and seen to the bottom; its Peculiarity is a hollow Spout in the lower Part of the Shell's Mouth. Mr. James Cunningham Surgeon sent me this and the next from Pulo Condore.

8. Large Emmy Button-shell, Cat. 213. It's bigger and the Twirls more exerted than the last, the Mouth when full grown very callous or Blobber-tipt, Mr. Samuel Duncleley procured me this and several other curious Shells gathered by Mr. Andrews at Emmy an Island on the Coast of China.

A. 9. Black-headed Froghopper, Cat. 39. This and the Two next are frequent in Gardens towards Autumn, sheltering themselves under the Leaves.

A. 10. Striped Froghopper Cat. 40. The middle of the back and tail of this are brown, the rest pale.

A. 11. Pale-headed Froghopper, Cat. 38. This and Fig. 9. may be Male and Female, they chiefly differing in the colour of their Heads.

12. Mexican Pistachia. This is a wrinkled Kernel black without, but white and close within, it tastes as pleasant as a Pistachia or Almond. I receiv'd several of these from Father Kamel.

Tab. 62. **F**ine streakt Bugkin, Cat. 24. I have observed A. Fig. 1. this elegant Insect in the Woods about Hampstead.

A. 2. Henbane Scarlet Bug, with black Spots, Cat. 23. It's frequently found on this Plant in May and June.

A. 3. Great Female Cabbage Butterfly, Cat. 6. Mus. no. 825. Very common in Gardens with the next, the Male of this, has no Spots above, only tipt with black.

A. 4. Common white veined Butterfly, with double Spots, C. 8. This and Tab. 61. Fig. 1. are both coug't under one Name in my Museum N°. 302. and are distinguish'd from the common Cabbage ones in having large blackish Veins underneath, which those have not.

5. MADRAS spotted Scallop, Cat. 298. This Bivalve varies much in its Waves and Colour, viz. from pale yellow to fad brown.

6. VIRGINIA Rattle Snake's Tail, Cat. 538. These Rattles are of a Parchment-like Substance, but stiffer and being loosely focketted, causes that Noise when in Motion, it's said they are as many Years old as they have Joynts there.

7. East India Serpent Stone. The applying this Stone is much esteem'd in the Indies as a certain Remedy for the Bite of the Cobra de Capello or Hooded Snake, out of whose Head some affirm this to be taken; but it's more probable, as others have assured me, that it's factitious and said to be

composed of burnt Elephant's Bones, mixt with other Counterpoysons.

8. LUZONE Santol Fern, Cat. 308. Because it grows on that Tree, the Leaves are above 2 Foot long, thick and pounc'd as the former. Kam. Ray 3. App. 2. pl. 24.

9. Rhymay Fern, Cat. 307. It grows on a sort of Jack or Sop Tree call'd in Luzone Rhymay, the Leaves thin, yet a Yard long, and a $\frac{1}{4}$ broad. Kam. Ray 3. App. 3. pl. 30.

10. Fig Fern, Cat. 316. This is a large Fern with deep cut Leaves, and in many Places with wide Holes through them. It grows on a sort of Fig Trees, which in Luzone are call'd Balete. Kam. Ray 3. App. 3. pl. 29.

11. The Pod of a Malabar Tree call'd Minari, Cat. 394. Described in Mr. Ray's Hist. Plantar. p. 1733. cap. 20.

12. Cuscuta marina, Gulaman Luzon. A Sea Weed very like the Italian Vermicelli, and perhaps as wholesome.

Tab. 63. **T**HE Kernel of a sort of Palm which Mr. James Cunningham brought me from India, Cat. 396.

2. The Cajou or Cassu Nut, Cat. 387. Ray 1649. cap. 15. The Tree bears a Pear-like Fruit, which has no Seed within but this at top, in this is a Kernel that eats as sweet as an Almond.

3. A Kernel of the Fausel or drunken Nutmeg, Cat. 395. Ray. 1363. cap. 18. The Seamen grate this into Punch instead of Nutmeg which it resembles, to intoxicate or fuddle Strangers, it's called also Beetle-nut.

A. 4. Phalena parva, lutea, perelegans, signaturis fuscis. The pale Part of this is yellow, the rest brown. Mad. E. Glanvill gave me this rare Moth it being the only one I have as yet seen.

A. 5. Small Wasp-Beetle, Cat. 44. Not so big as the next, nor the Sheaths so black.

A. 6. Common Wasp-Beetle, Cat. 43. I have met with this on Nettles but not often; its Back finely streakt with yellow.

A. 7. Great Wasp-Beetle, Cat. 42. The curious Mr. Joseph Dandridge found this rare Insect in his own Yard.

8. Chast-tree Mistletoe, Cat. 399. This is said to be so great a Counter-poison, that whoever eats of it, may handle Vipers without danger; Its Leaves grow opposite, are thick, round and smooth; when very young, hoary, the Flowers red, and always 3 together, its Berries small and longish, Kam. Ray App. 3. p. 3. pl. 36.

9. Luzone Trefoil Fern, Cat. 309. Polypodium triphyllum Kameli Ray Vol. 3. App. p. 2. pl. 28. The middle Leaf a Span and an half long, the Two Holes or Ears are thick pounc'd on the under side.

10. Fragrant Luzone Fern, Cat. 317. This has plain Willow Leaves, with feed edged Lifts. It's used in Luzone instead of Melilot. Kam. Ray App. p. 2. 10.

11. A small rugged Shell with a sharp Ridge, and a deep furrowed Twirl, Cat. 562. Its Navel small with a Tooth or Knag in the Mouth. Found on the Shores of Jamaica and Barbadoes.

12. A small American Unicorn Shell with Saffron Girdles, Cat. 587. Its Mouth notcht and Nose twisted, the dead Shells are all white.

Tab. 64. **L**ong Scarlet Abrus, Cat. 362. Its Fye at the Fig. 1. broadest End.

Flat round Abrus or Luzone Babay, Cat. 363. I take this to be the Mansjadi Hort. Malab. Vol. 6. Tab. 14. Ray 1752. cap. 16. The Seeds are wholly Scarlet, and all of so exact a Size, that they weigh Gold with them.

3. An oval rugged Scaly-like Fruit, brought from about *Carthage* in *America*.

4. *Mediterranean Maw-ball*, Cat. 157. It very much resembles the hairy Balls found in the Stomach of black Cattle. Common on the Shores at Leghorn, &c.

A. 5. *Darby's Brass Moth*, Cat. 18. These Wings are mostly of a greenish Brass Lustre, with brown fields and pale Edges.

A. 6. The *Lamma Moth*, Cat. 19. This is distinguished from all others in having a white Mark in each Wing, very like the Greek λ . It's frequent in Gardens in August and September.

7. A short warty *Whelk-shell* from Pulo Condore, an Island in the East-Indies, Cat. 236.

8. Another from the same Place, somewhat longer and rib'd, Cat. 237. Both brought me from thence by Mr. Cunningham.

9. The *Dapo Mistletoe*, Cat. 400. From the Bosom of the Leaves which are thick and yellowish grow many roundish speckled golden Berries. *Kam. Ray App. p. 3. pl. 34.*

10. Finger-leav'd climbing *Luzone Fern*, Cat. 314. The bottom Leaves are largest and most divided, the Top smaller and less, which Father Kamel says, bears brownish Seed, *Ray Vol. 3. App. p. 2. pl. 17.*

11. Cone-edged Scandent *Luzone Fern*, Cat. 315. The Specimen from which this Figure was taken, Father Kamel sent me.

12. A small Scarlet Beetle, with a black Tail, Cat. 203. This elegant Insect Mr. Edward Bulkley sent me from Fort St. George.

Tab. 65. **R**usty Alp-Rose, Cat. 173. On this Shrub grow Galls of divers Sizes and Colours, as white, yellow, bloody and pale red.

2. Woolly Mountain Colts Thistle, Cat. 162. Rises about a Span high, with 2 or 3 Heads at top, on very woolly Stalks, the Leaves serrated, broad and pointed. Grows on the highest Alps near Soglio in Switzerland.

3. A fine mark'd Capricorn Beetle, Cat. 140. It's of a blewish Colour spotted with black; Found in Switzerland by the curious Dr. John James Scheutzer.

4. Black-mouth'd Lisbon Snail, Cat. 143. Like Tab. 52. Fig. 11. but that the Mouth of this is black, which perhaps may proceed from its Age. Mr. Fezreel Jones found this about Lisbon.

5, & 6. I take these to be the Cover or Stop-hole of the *Cochlea calata Rondeletii Aquat. p. 96.* or *Cagarolo de Mar. Bellonius* calls these *Umbilici*, seu *Faba Marina* from their Shape. Father Bonanni sent me this from Rome. They are very common on the Mediterranean Shores.

7. Cud'd Coralline Alp Moss, Cat. 158. Grows about 2 Inches high, of a grey Colour, with small fleshy Cluster Heads and Stalks.

8. Curl-haired Alp Moss, Cat. 159. Dr. Scheutzer found this pretty Moss on Mount Galand in Switzerland.

A. 9. Small English Tooth-shell, Cat. 82. It's smooth, white, and somewhat crooked with purplish Tips, especially whilst the Animal is in them. I take it to be a sort of Worm-shell, found on our own Shores.

10, & 11. A small Pyramidal or Toplike Shell, found about Mompeliev, Cat. 147.

12. Platers White Mountain Crow-foot, with Purple Edges, Cat. 167.

13. A Variety of the last, all white, Cat. 166. Both these are found on the snowy Tops of Mount Septimus in Switzerl.

14. A polished Switz Marble, finely mark'd and spotted, Cat. 177.

15. Alpine Heath-House-leek, with blew Flowers. Cat. 168. This makes a pretty Show on the Top of the highest Alps, appearing in Flower at the first melting of the Snow.

Tab. 66. **B**lunt-tipt Barbary Unicorn, Cat. 419. Mr. Edward Hancock found several of these about Santa Cruce, but all as it were broken tipt.

2, & 3. Small Legorn Gowrykin, Cat. 152. Like our English Nuns but more pointed and both back, and Lips wholly smooth: This new Shell my curious Friend Mr. Robert Ball Merchant, gave me, who had them sent him, gathered on the Shores about Leghorn.

4. Chaff-forked Switz Grass, Cat. 160. This has but few Heads with bifid Tips.

5. Small, bluish, Pearl-grass, Cat. 161. It's like one that grows pretty common about Hampstead-heath.

6. Alpine white Pride. This elegant Plant has very small grey Rosy Leaves like our white-edged London Pride, but 10 times less, its Flowers white and large for the Size of the Herb. Grows almost on all the Helvetic Mountains.

7. Prickley-leaved Alpine House-leek, Cat. 169. Its narrow Leaves are edged with hairy Prickles, its Flowers 5 leaved, whitish with yellow Bottoms. Grows in stoney Mount.

8. Mountain Milfoil or Musk-Iva, Cat. 164. *Herba de*

Munt Solienfibus, Iva alia. The Inhabitants in Switzerland where this Herb grows, frequently use it in Uterine Cases with good Success, it being of a hot aromack Taste and Smell.

9. Moss-leaved Alpine yellow House-leek, Cat. 170. It has a large yellow Flower. Grows on Mount Septimus and divers of the Rhetian Alps.

A. 10. White feathered Moth, Cat. 9. This is an elegant Insect, its Wings being divided into several white downy Feathers, like those under the Wings of small Birds. I have often met with it in Hedges about Midsummer.

A. 11. Gray feathered Moth, Cat. 10. Not so frequent as the last.

A. 12. Small marbled Feather Moth, Cat. 11. This is often found as it were hanging on the Stalks of Grass in Woods.

13. A small jointed, Scarlet Water-worm, Cat. 49, & 142. Found in a cold Sulphur Water in Switzerland. I take it to be the same, which I have met with, in divers muddy Ditches about London.

14. A pretty speckled Kidney-Bean from Poland, Cat. 176. Tab. 67. **A** N American Perch with black Waves, Cat. 545. Fig. 1. This by some is call'd an Oldwife, it's 2 Foot long with large Scales, and 5 or 6 blackish Lifts from Back to Belly on each side.

2. American Cod-Barbell, Cat. 544. I am told they call this in Carolina a Cat-fish. This and the last were figured from Paintings supposed to be done in the Voyage made by Sir Walter Raleigh to America.

3, 4, & 5. Are as many Varieties of small Brasil Nerit Shells, which Father Bonan sent me from Rome.

A. 6. Brown Feather Moth, Cat. 12. I figured this and Number 8. from Two in Mr. Dandrighes Collections.

A. 7. Fine, many feathered Moth, Cat. 13. This is a very elegant small motled Moth, each Wing divided into about 10 Feathers. I first observed it May 1. 1696. in Mr. Dandridge's Garden at Hoxton, and since that almost annually in our Physick Garden at Chelsey, about the same Season.

A. 8. Small, brown, Feather Moth, Cat. 14. Somewhat less than Fig. 6. each of the Wings composed of 5 Feathers.

A. 9. The Human Crab or Grain-louse, Cat. 48. Too common amongst the poorer sort of People.

10. Thick set Organ Corall, Cat. 301. *Mus. nosfri 797.* Where you may see the Synonyms of divers Authors.

11. Thin set Organ Corall, Cat. 302. Both these from the East Indies, but this last more rare.

A. 12. Black, flat Mushroom, with white Tips, Cat. 120. I have met with this but not so common as the round sort, found in Gardens.

Tab. 68. **A** Large, flat bodied China Trumpet Fish, Fig. 1. Cat. 181.

2, & 3. Are a couple of large Slates with the flat Impressions of Fish on them sent me from Dr. Christian Maximilian Spener the King of Prussia's Physician at Berlin.

4, 5, 6, 7, & 8. Are five other Varieties of the small Brasil Nerit Shells figured in the last Table; several of these are very beautiful, and would make fine Ornaments in Rings, or serviceable as Buttons set in Gold, Silver, &c.

A. 9. Wiltshire Star-flint, Cat. 139. This Fossil is represented, as cut, polished, and designed for a Snuff-box; its white Stars are opaque, and the Interstices transparent as a Mocha-stone, which it equals, if not exceeds, both in its Singularity and Beauty. Our curious Brother and Botanist Mr. John Nicholls gave me this to figure, with a Peice of the Flint rough.

10. A white American Corall, with small Stars, Cat. 598. Frequent on the Shores of Jamaica, Barbadoes, &c.

11. Common American Brain Corall, Cat. 599. So call'd for its likeness to humane Brains. Found very plentifully on the American Shores, especially about the Islands.

12. The Mediterranean common thorny Murex, Cat. 150. Frequent in the Levant on the European Shores; It's distinguished from others by its thick, short and furrowed Spikes.

Tab. 69. **P**rickley yellow American Bladder Fish, Cat. 548. Fig. 1. The Ground is yellow, all the Streaks very black, the Prickles blewish, Sides rawney, Fins of a reddish brown. Copied from Sir Walter Raleigh's Paintings with this Inscription, A swelling Fish 8 Inches in length.

2. Sir Walter Raleigh's Ribbon Snake, Cat. 537. *Feligne Indigenis.* Some of these are an Ell long; The Savages eat them either roast or boil'd Mts. The Back yellow, the sides scarlet, spotted with black and white.

3, & 4. A small white Cylinder Shell with a wide Mouth from Fort St. George, Cat. 242.

5. Carolina Lattice furrowed, Welsh-pot Shell, Cat. 566. Like our Garden Snail, but Lattice-furrowed and waved with yellow, like our Welsh Pot-ware, its Navel both auriculated and hollow.

6. Willow-leaved Luzone Button Flower, Cat. 342. *Kamel Ray Vol. 3. app. p. 4. 15.* Grows about a Yard and an half high; from the Bosom of notch'd, long pointed, hairy Leaves, come whitish Flowers out of round green Heads.

7. Nettle-leaved Luzone Button Flower, Cat. 343. *Ray Kamel 4. 13.* Like the last but more hoary and climbing, its Flowers set in a 4 leaved Calyx or Cup.

A.8. The greater Chimney-sweeper, Cat. 15. This is a very black Moth with white tip'd Wings; I first observed it about Hampstead A.D. 1695. in Meadows, and since that in divers the like Places pretty common.

A.9. Small Chimney-sweeper, Cat. 16. Much less than the last, found in Cain Wood, about the beginning of May, flying about Trees.

A.10. Small English Cochineel, Cat. 25. The Ground of this little Beetle is black with 4 red Spots. I have observed it in Sept. on Rose Buses, with the small Cow lady.

A.11. Common green Cantharis, with golden Specks, Cat. 22. Frequently met with in gravelly Paths about Hampstead and other Heaths: from May till Midsummer, they soon take Wing and are not easily caught.

12. An elegant hairy Caterpillar, sent me some Years since from Guinea by Mr. Edward Bantar, Cat. 408.

13. Rawleigh's American Tawney Snake, Cat. 536. *Memelkion Indigenis.* A Foot in length Mfs. Its Head flesh coloured, the rest tawney.

Tab. 70. **L** H E Toddy Fly, Cat. 559. *Mus. Reg. Societ. 162. Fig. 1.* So call'd from the Mischief they do to that Tree, 30 or 40 of them together, sawing thro' the Bark by the Help of their Snout-born, will make themselves drunk with the Liquors that flows down, and so are taken. Mr. William Steward Surgeon caught this in Martinico they are also frequent in Guinea.

A.2. Small furrowed Water Beetle, Cat. 32. This and the next are seen in Ponds, from April till Midsummer. The Shell-wings of this are furrowed.

A.3. Small smooth Water-Beetle, Cat. 32. I take this and the last to be Male and Female.

A.4. Small, black, shining Water-Beetle, Cat. 31. It differs from the last chiefly in colour.

5. Twin-forked Indian Stag-Beetle, Cat. 205. This Beetle Dr. Sloan had presented him from the East Indies by Mr. Goff.

6. Goff's Indian green Long-Beetle, Cat. 204. From the same Place and Person. This is somewhat smoother than *Gazoph. nost. Tab. 20. Fig. 8.* having its Edges a little welled, and its Shoulders resembling the Snap-Beetle Kind.

A.7. Small Buff-Leopard, Cat. 17. This pretty Moth is of a Buff Ground spotted with black: I have often met with it in Cain Wood about May.

A.8. Water Cricket, Cat. 46. This is a slow creeping Insect found at the bottom of Ponds amongst the Weeds: I take it to be a sort of Hexapode or Grub which produces the Water Libella or Adder-bolts.

9. The large Barbadoes Magpye Top-shell Cat. 584. Its pretty equally mixt with black and white. Frequent on the Shores of that Island, Jamaica, and others thereabouts.

10. Luzone Musick-shell, Cat. 247. This is much larger and waved, without either Girdles or Points, by which it differs from the American kind.

11. Jamaica Wart-shell, Cat. 564. Dr. Sloan brought this alive from Jamaica, and gave it to Dr. Lister, who kept it alive a whole Summer in his Garden at Westminster.

12. Cochine branched Comb Fern Cat. 305. This is one of the most elegant amongst the numerous Tribe of Capillaries. We are obliged to the Inquisitive Mr. James Cunningham who first discovered this and sent it to me from Cochinechina. A. & B. represent its first Shootings towards Flowering.

Tab. 71. **B** lack Madras Beetle-Bug, with white Spots. *Fig. 1. Cimici affinis niger, maculis ochroleucis elegantior notatus e Madraspatan Phil. Transact. n. 271. p. 861. n. 22.* Its Sheaths are black and velvety, with 3 yellowish white Spots on the outer, and one on the inner Edges of each Wing.

2. White Indian Comb-chaffer, Cat. 207. The Singularity of this Insect is, its being white as if covered with Chalk.

3. Small Carolina Steel-Beetle with a yellow girdled Back and Neck, Cat. 561. *Phil. Transact. n. 271. p. 814. n. 49.*

4. Small yellow Carolina Turtle-Beetle with transparent Edges, Cat. 561. *Phil. Trans. n. 271. p. 814. 50.* These 2 last Mr. Edmund Bohm was pleased to send me with divers other curious Insects from Carolina.

5. A hard oval Fruit with Seed holes round its Surface, Cat. 605. Found on the Shores of Jamaica, &c.

6. A blew flowered tripetalous Plant, with Lilly Leaves and Kernelly Roots call'd in Luzone Bitoon *Kam. Ray H. Plant. Vol. 3. app. p. 3. pl. 7. Cat. 386.*

7. A thick woolly leaved Luzone Plant, whose Bran-

ches spread on the Ground, with a small yellowish Flower, and 4 pale hard rugged Seed set close together. *Kamel Ray Vol. 3. app. p. 4. pl. 14.*

8 & 9. Small striated Virginia Button-shell, with a three-toothed Mouth, Cat. 563. *Phil. Trans. n. 246. p. 395. 6.*

10. A flat buttoned Jamaica-shell, with double Teeth, Cat. 563. This has a hollow Navel, which distinguishes it from another that has none, from the same Island.

11. Radiated Providence Musclet. Cat. 588. Mr. John Graves Her Majesty's Collector of those Parts, brought me this Shell from that Island.

12. A hard reddish veiny Wood from the Philippine Isles, sawed broad ways, it's finely speckled and would prove very ornamental inlaid on Scrutores, Cabinets, &c. *an Luzong and Bahil Luzonensis Kamel. Ray H. Pl. Vol. 3. app. p. 45. 5.*

13. Mexican sweet Wood. Cat. 607. *Agallochum s. Lignum Aloes Mexicanum Kamel Ray Vol. 3. app. p. 87. 1.* This is a pale coloured Wood with brownish Clouds, it has a very fragrant Smell especially if chewed. F. Kamel sent me this and said it came from Mexico.

Tab. 72. **H** oary spiked Luzone Adhatoda, Cat. 358. Its Fig. 1. Flowers small, purplish, and of the Shape of Betony growing out of a hoary Spike. *Kam. Ray 3. ap. 4. pl. 1.*

2. A flat spiked Luzone Adhatoda, Cat. 355. Differs from the last in having its Leavy Tufts smooth and flat, *Kamel Ray 3. p. 4. 2.*

3. *Rhamnus Capensis fol. comâ confertis, fl. purpureo.* These Leaves grow in Tassels, short and thick, its Flowers purple, each Branch ends in a Thorn.

4. Eadem *Fl. obsoleto.* This differs from the last in having a dull coloured Flower. Both these Mr. Holt the Bishop of London's Gardener gave me the Paintings of, which he made from Plants growing in my Lord's Garden.

A.5. Pale Boat Fly, Cat. 35. The Sheaths are yellowish, this and the 2 next, are found in many Ponds about London.

A.6. Common pied Boat Fly, Cat. 36. Tho' these are very common, they are the most beautiful of all I have seen.

A.7. Common Boat-Bug, Cat. 37. So call'd from their Flatness, the 2 former being ridg back'd.

A.8. Great smooth Water-Beetle, Cat. 29. This is Male to the next. Common in the Spring, in divers muddy Ponds about London.

A.8.1. Great, streakt Water Beetle, Cat. 30. This is the Female.

A.9. Small, smooth Water Beetle, Cat. 34. Its Back blackish and shining. I first observed it in a Pond at Kentish Town.

A.10. Right-nosed Limington Fossile Oyster, Cat. 79. It's flatter than the next, and found more sparingly.

A.11. Left-nosed Limington Fossile Oyster, Cat. 80. I take this to be the lower valve, being more hollow and thicker, the Impression of its growing to the Rocks, being frequently seen. I could never meet with either this or the last in pairs.

A.12. Limington Curl'd Cockle, Cat. 73. These are found of all Sizes from that of a Nutmeg (which are the most common) to the Smallness of a Cherry-stone, and often in pairs. These 3 and divers other very curious Fossils I found in a high clay Bank on the Sea side between Limington and Christ-Church in Hawtshire.

A.13. Pin-headed pendant Mushroom, Cat. 116. This grew to the under side of a Rose Leaf, and was presented me by the curious Mr. Joseph Dandridge.

Tab. 73. **M** yrus Garnetia albus, parvus, tenuiter cancellatus. Frequent on the Garnsey Shores.

A.2. Limington Spindle Fossil, Cat. 109. A very rare Shell, and the only one I could find after a diligent Search for several Hours.

3. Small Smyrna Ribwort, with hairy Grass Leaves, Cat. 325. The Plant no bigger than the Figure.

4. Small, round wing'd, Smyrna Rusty Fern, Cat. 320. The Leaves very small, hoary, and underneath wholly rusty.

5. Smyrna Club-rush, with crooked Heads, Cat. 325. These come 2 or 3 out of a Sheath. This, the next, and the 2 last, all very elegant Plants, Dr. Sherard, that curious Botanist, sent from Smyrna to me and other Friends.

6. Dwarf Smyrna Adders-tongue, with short Grass Leaves, Cat. 321. Dr. Sherard says, you shall hardly find one Plant in 1000 larger than the Figure of this.

A.7 & 8. small Limington Fossil Wheel, with a furrowed side, Cat. 88. I have received the live Shell from the East Indies.

A.9. Small, latticed, Limington Wheel, Cat. 9. I have a Shell very like this from the East Indies.

10. Marbled Smyrna Purr, Cat. 300. A beautiful Bivalve finely latticed and marbled, brought me thence by Mr. Stewart Surgeon.

11. Feather tail'd Smyrna Adderbolt, Cat. 199. The Singularity of this beautiful Fly, is in having its under Wings to very narrow and long.

12. Yellow

12. Yellow *Smyna Butter-bolt*, Cat. 200. This elegant Insect has the Horns of a *Butterfly*, but Wings like an *Adder-bolt* part transparent, the rest yellow and dark brown.

13. Jamaica *Ox-eye Bean*, Cat. 604. This is the Seed of the *Mucua* or great *Cow-itch*, and are often used for *Buttons*. Tab. 74. **M** Arbled Jamaica *Murex*, with knotty Twirls, Fig. 1. Cat. 579. I have seen few less than this but many much larger.

2. A Fruit from *Guinea* call'd *Cole*, Cat. 533. Two or three of these eaten in a day, prevents Hunger, *Chif. Exot.* l. 3. p. 64. Fig. 5. Ray 1774. c. 3. pl. 1.

3. *Millepede Indian Worm*, Cat. 191. Differs from the great *Scolopendria* in being round Mr. *Cunningham* brought me this from the *East-Indies*, I have them also from *America* but somewhat less.

A. 4. A common *Water Scorpion*, Cat. 47. Monthly *Miscell.* Vol. 3. p. 241. 6. Found under Water by Pond sides.

A. 5. A common *Earwig*, Cat. 26. *M.M.* 3. p. 236. 52. A Pest in Gardens to *July-Flowers* and others.

A. 6. A Pipe of small Eggs encompassing a Pear-tree Stalk, C. 50.

7. A Tobacco Pipe used by the Kings of *Carolina*, Cat. 608.

8. *Bucabucas* or *Luzone Hop-headed Adhatoda*, Cat. 357. Out of these scaly-leaved Heads, come small blew Flowers with a pointed Husk in which are little hard Kidney Seeds.

9. An elegant rugged Shell, with flat Lips and a very small Mouth; from *Pulo Condore*, Cat. 238.

A. 10. A blackish Stone with *Alabaster Spots*, Cat. 130. I found several of these on a small Island at *Pool* in *Dorsetshire*.

A. 11. Great, black Female *Water Beetle*, Cat. 28. *M.M.* 3. p. 229. 1. These are not common about *London*.

A. 12. Great, black, Male *Water Beetle*, Cat. 27. *M.M.* 3. p. 229. 2. Differs from the last in having a *Lancet* like Protuberance near the End of its Fore-feet. Dr. *Middleton Massey*, a very curious Physician, observed these about *Witch*.

Tab. 75. **A** White Indian *Rhomb-shell*, finely speckled with black, Cat. 256. The Reverend Mr. *George Lewis* sent me this from *Fort St. George*.

A. 2. Crack'd *Barnstable Limpet*, Cat. 112. Found about that Town, it's a pretty small white latticed Shell, with a Flaw on the Edge.

A. 3. *Hartlepool Horn Limpet*, Cat. 111. Common thereabouts, it's thick, flattish, of an amber Colour, and somewhat transparent.

A. 4. Small latticed *Whelk*, Cat. 86. Found frequently amongst *Cockles* in Garden Walks.

5. Small *Unicorn-shell*, with rugged Twirls and Waves between, Cat. 260.

6. Another, with Twirls half smooth, the rest streakt, C. 261.

7. A black *Luzone Ant* call'd *Hantic*, with open Pin-cers, Cat. 210.

8. A Leaf of the *Cacao* or *Chocolate Tree*. *A.B.C.* its Bud and Flower, D. the Fruit, and E. the Kernels, of which the *Chocolate* is made, Ray H. Pl. 1670. c. 8. & app. 62. 7.

9. The *Cochineel*, that part of it as its used in Physick and dying. F. its *Chrysalis* or *Coffin*, G. The *Beetle* in its perfect State. Cat. 558.

10. Jamaica *Button-shell*, Cat. 567.

11. *Carolina Freckled Crab*, Cat. 540. Brought me from thence by Mr. *John Graves*, it's finely netted and speckled with white and red.

A. 12. *Cornwall Purr*, Cat. 64. First sent me thence by Mr. *Charles Dell*.

Tab. 76. **F**ine Hair-girdled white *Orchney Moon Cockle*, Fig. 1. Cat. 66. Mr. *William Clerk* Surgeon brought this with other Shells, &c. from those Isles.

2. *Carolina Razor-bill*, Cat. 541. I should be glad to see the whole Bird.

3. A *Luzone Capricorn* with furrowed Sheath-wings, C. 201.

4. The Case of a pretty small *Turtle* from *Smyna*, Cat. 190.

5. A rare *Luzone-shell* with its Mouth to the right, Cat. 224. Its Waves brown, the rest yellow and white.

6. A large flattish *Button-shell*, with a deep Navel and callous Mouth, given me by Mr. *Ayrey*.

7. A striated, yellowish, Star-knotted *Coral*, Cat. 303.

8. A white star-beamed knotty *Coral*, Cat. 304.

9. *Grus Capensis fulca*, capite aureo galeato.

10. A *Luzone Capricorn* with short-lined Sheaths, Cat. 202.

11. A prickle-tail'd *Luzone Cricket* with its Grub, Cat. 111.

12. *Petty*. A brass Coin current in *Batavia*, *Java*, &c.

Tab. 77. **A** Long Cone or *Juli* of a *Malabar Palm*, on whose Leaves they write with a Pin, Cat. 397.

A. 2. Large *Limington Whelk*, Cat. 108. Some of these weigh half a Pound, and are 8 Inches about.

3. *Cape Fig-Marygold*, with a purplish Flower and yellow middle, Cat. 481.

4 & 5. Two different Impressions of *China Inck Cakes*.

A. 6. *Limington Bottle Whelk*, Cat. 107. This is one of the largest Size, it gradually lessens from 4 Ounces to 10 Grains.

7 & 8. A small *Silver India Coin*, with Characters on one side only.

9. *Cape Purple Fig-Marygold*, with hairy tipped Leaves, C. 484.

10. Yellow, *Cape Fig-Marygold*, with a whitish bottom, Cat. 482.

11. *Drum Stones*, Cat. 550. Mr. *Thomas Preston* Surgeon tells me, one of these lye on each side the Head of that Fish, which is common on the Coasts of *Maryland* and *Virginia*.

12. Another Stone supposed to be found in a sort of *Cod-fish*, Cat. 549.

13. *China Caltrops*, a strange shining black horned Fruit, elegantly wrinkled as if carved or wrought.

A. 14. Long hairy leg'd *Home Spider*, Cat. 45. Mr. *West* brought me this from *Islington* caught in a House there Aug. 4. 1706.

Tab. 78. **B**rown *Luzone Butterfly* with greenish Spots, Fig. 1. Cat. 196. This elegant Fly and its Delineation Father *Kamel* sent me.

2. Yellow, *Cape Fig-Marygold* with a light notched Leaf, Cat. 483. It's glaucous and triangular.

3. Straw flowered, *Cape Fig-Marygold* with a horned Calyx, Cat. 485.

A. 4. *Limington Worm-shell*, Cat. 83. Some of these that are whole, are much longer than the Figure and end sharper.

5. A small *Luzone Crab* with a large right Claw, Cat. 189. These burrow in holes on the Shore.

6. *China Silver-tail*, Cat. 186.

7. *China Gold-tail*, Cat. 187. Fish brought thence alive.

A. 8. Rib-welted *Limington Tellen*, Cat. 58. I have a *Bivalve* like this from *Jamaica*.

9. *Saffron Cape Fig-Marygold* with roundish Leaves, C. 480.

10. White, *Cape Fig-Marygold* with *Houle-leek* Leaves, Cat. 478. All these *Fig-Marygolds* in this and the last Table Mr. *Gardner* of the *Temple Garden* gave me in Flower, about the beginning of June, A.D. 1706.

A. 11. *Limington Thorney-ribs*, Cat. 106. A sort of *Fossil Murex*, of which this is about the middle Size, the smaller are the most plentiful.

A. 12. Flat *Limington Unicorn*, Cat. 113.

A. 13. Round *Limington Unicorn*, Cat. 114.

Tab. 79. **L**ong slender *Luzone Centipes*, Cat. 192. It's a Fig. 1. Span long, yellowish, with a brown Head, and has near 100 Feet on each side.

2. A small *Silver Coin*.

3. *Surat Cats-eye*, sent me thence from Dr. *Waldoe*. I take it to be part of a Shell polishr.

4. A sort of *Gum Succory* with hoary *Primrose* Leaves and yellow Flowers. *Sambongcala Luzone*, Cat. 326. *Kam. Ray* 3. App. 5. pl. 3.

5. *Tabaraba coxan Luzon*. Bears a blew thrummy Flower, with Leaves like the last, spreading on the Ground, Cat. 327. *Kam. Ray* 3. App. p. 3. pl. 5.

A. 6. *Blobber-tipt Edinburgh Whelk*, Cat. 85. These are found on the Shores of *Leigh* near that City.

A. 7. *Harwich Grater Cockle*, Cat. 60. Found in those Cliffs.

8. *Singandacat Luzon*. Bears a small blew threddy Flower on Mountains, Cat. 329. *Kam. Ray* App. 3. pl. 3.

9. *Arujatag Luzon*. A sort of *Succory* with a small blew Flower and *Primrose* Leaves, Cat. 328. *Kam. Ray* Ap. 3. pl. 2.

A. 10. Long *Pierce-stone* or *Pholade*, Cat. 74. These frequently work themselves into large Clay stones, and there live.

A. 11. Short *Pierce-stone*, Cat. 75. Like the last, but broader and not so long.

A. 12. Broad *Pholade-Muscle*, Cat. 77. A broad flattish smooth Shell, open at one end.

A. 13. Furrow-rib'd *Pholade-Muscle*, Cat. 76. The better part of each Valve is rugged the other smooth, parted by a Furrow.

14. *Carolina Salamander*, Cat. 535. Much less than our *European Kind*, and is only spotted.

Tab. 80. A sort of *Globe Amaranth* with a scarlet and some Fig. 1. times white Flower, Cat. 340. *Kam. Ray* 3. Ap. 4. p. 18.

2. Salt-speckled *Gowry*, Cat. 278. From the Resemblance of its Spots.

3. *Luzone Steeple Fern* with lifted Seed-edges, Cat. 318.

A. 4. A *Fossile Bivalve*, found in a Strata or Bed of Shells, at the West end of *Woolwich* in *Kent*, Cat. 61.

A. 5. Another found about *Maidstone* in *Kent*, given me by Mr. *John Bagford*, Cat. 62.

A. 6. This *Fossile St. Robert Sibbald* sent me from *Scotland*, C. 59.

7. *Concha Veneris parva*, maculata, ventre purpureo. This is known from all others, its belly being wholly purple.

8. *Jamaica Buff Gowry* with a purple Mouth, Cat. 585.

9. *Indian speckled Starling Gowry*, Cat. 279. A Shell not common.

10. Small white rib'd *Barbadoes Limpet*, Cat. 583.

11. *Barbadoes Thimble Limpet*, Cat. 580.

12. Wart-rib'd *Barbadoes Limpet*, Cat. 581.

13. *Tagolina Luzon*. A Sowthistle with purple Flowers. Cat. 330. *Kam. Ray* 3. App. p. 3. 8.

14. *Luzone Dwarf Spurge*, Cat. 378. The Juice good in Fluxes, Vomiting, Bleeding, &c. *Kam. Ray* 3. Ap. p. 5. pl. 10.

GAZOPHYLACII NATURÆ & ARTIS

DECAS NONA :

S E U

HERBARIUM CAPENSE.

This DECADE Contains the *Figures* of One Hundred Elegant PLANTS, all growing about the CAPE of GOOD HOPE.

And Copied from the Original Paintings taken from the Living Plants, viz. Those which the States of Amsterdam presented to the Right Reverend the Bishop of LONDON, when His Lordship was at the Congress there A. D. 1691. with above Fifty others Painted from Growing Plants. Lately Purchased from the CAPE.

By JAMES PETIVER Apothecary, and F. R. S. LONDON.

Tab. 81. **T**urnep-leaved Cape Dandelion. c. 422. The Leaves Fig. 1. of a deep green above and pale below.

1. Narrow jagged leaved Cape Wolfs-bane. Cat. 423.
2. Broad jagged leaved Cape Wolfs-bane. c. 424.
3. Broad-leaved Cape Golden Live-ever. c. 439. Its Roots brown, Leaves pale below, with yellow Flowers.
4. Willow-leaved Cape Flea-bane, with yellow Flowers. c. 425.
5. Box-leaved Cape Tansey. c. 442. Leaves pale green, and thick set round the Stalk.
6. Tassel-flowred Cape Daisie-bush. c. 437. The Flower-rim white, the Pate yellow.
7. A sort of Cape Marygold with a yellow Flower and black bottom. c. 436.
8. Cape Mayweed with a single yellow Flower. c. 432.
9. Blew Cape Mayweed. c. 435. The Flowers blew above, and yellow below, it's green Leaves edged with red.
10. Yellow Cape Marygold with red edged Leaves. c. 434.
11. The same with Leaves wholly green. c. 433.

Tab. 82. **C**ape Cats-foot with Ribwort-leaves. c. 428. This Fig. 1. flowers in the Spring about the Cape of Good Hope in barren places.

1. Curl-leaved Cape Cats-foot with Hop-heads. c. 429.
2. A lesser sort, with plainer Leaves. Cat. 430.
3. Cape Cats-foot with leavay Stalks. Cat. 427.
4. Star-flowred Globe Cats-foot with long woolly Leaves. c. 431.
5. Long-headed, Cape Yarrow, with small tufted Leaves. Cat. 426.
6. White Cape Scabious with dented Leaves. Cat. 440.
7. Purple Cape Scabious with dented Leaves. Cat. 441.
8. * There is a Variety of this with a white Flower.
9. A sort of Daisie Cudweed with long woolly Leaves and single Flowers. c. 438.
10. A yellow flowred Cape Carline, with fine dented Leaves. c. 438. *
11. Cape Leonure, with close Orange Flowers and plain Leaves. c. 445.
12. A Bastard Bryony with a round Root, a small blewish Flower, and pointed Fruit, including 2 Seeds. c. 444.

Tab. 83. **C**ape Rampions, with Harts-horn Leaves. c. 462. Fig. 1.

1. Blew-flowred Cape Broom. Cat. 514.
2. Yellow Cape Broom, with Fernel Leaves. Cat. 515.
3. Yellow Cape Cytisus with narrow Leaves. Cat. 512. The Flowers grow 3 or 4 together, from the bosom of the Leaves.
4. Cape Cytisus, with tufted Flowers and small Leaves. Cat. 513.
5. Cape Laburnum with round Leaves. Cat. 509.
6. Cape Laburnum with narrow Leaves. Cat. 510.
7. Cape Laburnum with blew Flowers. Cat. 511.
8. A Shrub, with a purple Pea-bloom Flower and a Scarlet Fruit almost as big as a Cherry. c. 516.
9. A small woody Plant, with Myrtle Leaves and a Daisie Flower, set in a fleshy Calyx of 6 green Leaves.
10. A little Shrub with a small 4 leaved white Flower each petal lightly crenated and succeeded by a green oval Husk. Mus. Petiver 496.
11. This Plant bears a Spike of white 5 or 6 leaved Flowers which recoil like our Scorpion-grass. c. 451.

Tab. 84. **A** knobby rooted Cape Dogs-bane, with broad Fig. 1. Laurel Leaves, and yellow Flowers tipped with purple. c. 446.

1. The same with narrower Leaves and purplish Flowers. c. 447. Both these and the next have hairy Pods.
2. Tachard's yellow Cape Dogs-bane. Cat. 448. This has much narrower Leaves than the last, the Flowers turn back. Father Tachard in his Second Voyage to Siam, hath given a Figure of this and several others, taken from Cape Paintings.
3. A scandent Plant with long opposite Leaves, and a Melon-like Root. c. 449. The Flower and Fruit of this Plant I should be glad to see.
4. Cape Shrub Cranes-bill with a Vine-leaf. Cat. 451.
5. Cape Cranes-bill with a Curran-leaf. Cat. 452.
6. Cape Cranes-bill with a Sanicle Leaf. Cat. 453.
7. Scarlet Cape Cranes-bill with a thorny Body. Cat. 454. I should be glad to see this Tree.
8. Bloody Cape Cranes-bill with Mugwort Leaves. Cat. 455.
9. Yellow Cape Cranes-bill with Hemlock Leaves. Cat. 456.
10. Cape Cranes bill with a red Flower and Turnep-root. Cat. 457.
11. Fine, grey-leaved Cape Cranesbill. Cat. 458.

Tab. 85. **C**ape Dog-stones with a yellow Flower and Fig. 1. red spotted Stalk. Cat. 503.

1. A sort of Cape Hogs-snout with 3 purple Flowers from one base. Cat. 506. This elegant Bulb is the first Plant amongst the Reverend the Bishop of London his Cape Paintings.
2. Blush Cape Star-flower. Cat. 494. The Flowers white, edged with a blush of red, each composed of 6 equal Petals with as many apiculated Threds.
3. The Radiated Cape Nosegay. Cat. 495. Father Tachard has figured this elegant Bulb, but without Leaves, a Tassel of which Mr. John Starremburg sent me from thence.
4. Cape Day-lilly with a bluish Flower. Cat. 497. The Leaves are not seen whilst in Flower. There is another sort with white Flowers.
5. Cape Tulip-Orchis with a long Root. Cat. 500. This Anomalous Plant has red Tulip-like Flowers growing out of a Tuft of green Leaves with bluish Tips; its Seed Vessels pentangular.
6. Cape Tulip-Orchis with Dog-stone Roots. Cat. 499. Its Stalks red-spotted and socket-leaved, Flowers like the last, but Root testiculated.
7. Flatfish Cape Pap-shell. Cat. 416. Found on those Shores.
8. Cape Feather-leggs. Cat. 410. A very odd Insect with a yellow Back, the other Parts of a Fleish Colour.
9. Yellow Cape Tarantula. Cat. 405. The Body whitish, but the Swaths about it yellow, as are its Legs, spotted with black.
10. Warty-rib'd Cape Limpet. Cat. 417.

Tab. 86. **W**hite Cape Dragon-Orchis, with round Fig. 1. Socket-leaves. Cat. 501.

1. Yellow Cape Dragon-Orchis, with broad, pointed Socket-leaves. Cat. 502.
2. Purple

3. Purple Cape Dragon-Orchis, with curled Socket-leaves. Cat. 504. These 3 last have red spotted Stalks.

4. Cape Dragon Tulip. Cat. 496. From the Likeness of its Flower, of a pale red, full of pin-headed Threads, with a bluish Stalk spotted with red.

5. A Pineated Frickley Cape Euphorbium with green Flowers and Leaves. Cat. 519.

6. Yellow Cape Euphorbium, with leafy Stems. Cat. 520. Tab. 87. Purple Cape Corn Flag. Cat. 498. I take

Fig. 1. **P** this to be the same with that amongst the Bishop of London's Paintings under Fig. 5. Pluk. Phytograph. Tab. 187. 4. altho' His Lordship's has but 3 Flowers, and the Leaves set higher on the Stalk.

2. Branched Cape Hogs-snout with purple Flowers. Cat. 507.

3. Cape Rose Star-flower. Cat. 492.

4. Tall Cape Fish-coloured Harebells. Cat. 491.

5. Cape Hogs-snout with starry Flowers. Cat. 508.

6. Tachard's Cape yellowish Star-flower. Cat. 493. This Bulb is figured in that Fathers Voyage to Siam, it's also amongst the Bishop of London's Paintings.

7. *Comptonia Capensis lutea, trifoliata, crispata*. The Flowers yellow with large triangular Fruit. This and the next being very elegant and peculiar Plants, I have presumed to hand them down to Posterity, under the Patronage of His Lordship the Bishop of London his Name; being highly obliged to him for the Copies of them from his Paintings, which he was pleased lately to send me.

8. *Comptonia Capensis lutea, monophylla, crispata*. The Sheath of this Leaf is finely marked with bloody Spots like our Garden Dragons: By which and its single Leaf it chiefly differs from the last.

9. Cape, Branched Tree Aloes. Cat. 465.

10. Cape Cluster Cherry. Cat. 529. The Fruit small and stalkless, the Stone rugged.

11. Common Cape Cherry. Cat. 530. These grow sometimes 2 or 3 together on short Footstalks, with a furrowed Stone.

12. Tachard's Cape Cherry. Cat. 528. The Fruit red and furrowed Stones like the last, but Leaves much less and grow closer together.

Tab. 88. **C** Common smooth Cape Aloe. Cat. 464. The Leaves edged and spotted with white, the Flowers red, but yellow next the Stalk. Falher Tachard's Figure seems the same, but that he has omitted the white Spots in the Leaves. The Flower in the Bishop of London's Paintings are all red and somewhat longer; nevertheless I take them all to be the same.

2. Common prickly Cape Aloe. Cat. 463. The Flowers are wholly purple in My Lord's Paintings, and the Stalk all green; in mine the first are partly yellow and the last reddish, which may proceed from different Growths.

3. Common Cape Tree Aloe. Cat. 466. In this My Lord's Painting and mine very much agree, as you may see by that Copied in Dr. Plukenet's Phytographia Tab. 129. Fig. 3.

4. Blew Cape Fig Marygold with Bay-leaves and a Parsnip-root. Cat. 476. The midst of the Flower is full of yellow Threads tipped with Purple.

5. Broad Curl-leaved Cape Fig Marygold with a purple thrummy Flower. Cat. 477.

6. Cape yellow Fig Marygold with Grass Leaves. Cat. 488. By which, and its 5 green-leaved starry Flower-cup, it's distinguished from other.

7. Club-leaved Cape yellow Fig Marygold. Cat. 487.

8. Dwarf triangular Cape yellow Fig Marygold. Cat. 479.

9. Dwarf triangular Cape red Fig Marygold. Cat. 480.

Tab. 89. **C** Cape Pine Aloes with Onion-leaves. Cat. 469. Fig. 1. The tip of the Flowers red, the Shanks yellow.

2. Cape Aloes with Onion-leaves. Cat. 468. The Flowers like the last, but when full blown turn backwards; The Stalks are red in My Lord's Paintings, and green in mine.

3. Palm-leaved Cape Aloes with woody Stalks. Cat. 467.

4. Cape Housleek with thick roundish Leaves. Cat. 470. The Flowers reflex like Fig. 2. and of the same Colours.

5. Cape Housleek with Pine-leaves. Cat. 471. Its Flowers yellow mixt with red, and when full blown, open like the *Jasmin*.

6. Cape Spirea with white loose Flowers. Cat. 474.

7. Cape Housleek with white umbell Flowers. Cat. 472.

8. Cape Spirea with white close Flowers. Cat. 473.

9. White Cape Spirea with Savory Leaves. Cat. 475.

Tab. 90. **C** Cape Euphorbium with a Pine-apple Stalk, Fig. 1. and a rim of white jagged Flowers. Cat. 518.

2. Cape Melon-thistle Euphorbium. Cat. 717. This amongst My Lord of London's Paintings, is elegantly expressed both whole and cut.

3. Yellow-flowered Cape Euphorbium, with pointed, thick opposite Leaves. Cat. 521.

4. Small Cape Fritillary, or Pineated Dogs-bane. Cat. 450.

5. Yellow Cape Centaury with Star-leaves. Cat. 460. These Flowers have a black Bottom.

6. Grass-leaved Cape Centaury with purple Flowers. Cat. 459.

7. Cape Bottle-heath with bluish Flowers and red Pointels. Cat. 531.

8. Cape Linden Climber. Cat. 524. A very singular Herb, with a thick brown Root and Leaves like our black Bryony, its yellow stellated Flowers adhere to the middle rib of a jagged Membrane, which seems to close on occasion to cherish that or its Fruit from the Injury of Cold, &c. I have never seen any thing like it, except the Flowers of our *Line* or *Linden Tree* which is somewhat Analogous.

9. *Dolneus* his Rock Button-Flower. Cat. 522. This odd Plant being wholly new both in Face and Species, I have determined to record him under the Name of its first Discoverer Dr. Martin Dolneus a German Physician and Surgeon, to whom I am obliged in the Purchase of the greatest part of the Paintings in this Decade, which he procured to be drawn on the Spot from the Original Plants growing luxuriantly wild, about that Fertile Promontory the CAPE of GOOD HOPE.

GAZOPHYLACII NATURÆ & ARTIS DECAS DECIMA.

Tab. 91. **D** Warf Sea Fern Ray Hist. Plant. 140. Synops. 27. Fig. 1. Edit. 46. This Figure is of its natural

Bigness taken from a Sample, which Dr. John Thorpe F. R. S. gathered near Hastings on the Coast of Suffex.

2. This represents the Belly of the Carolina Salamander, Tab. 79. Fig. 14.

A. 3. Small netted Thames Nerit. Cat. 96. I find this Shell on the Sandy Banks in the Thames, particularly against the Physick Garden at Chelsey.

4. Barbadoes Water Melon with Seed naturally carved, as it were, to the Kernell. Cat. 603.

A. 5. Suffex Sea-straw. Cat. 115. From its Likeness when dry. First discovered by Dr. Thorpe on the Sea Shore, near Hastings in Suffex.

6. A Stoney bonelike Substance, which was brought to Father Kamel for a Serpent's Horn. Cat. 194.

7. Luzone Adhatoda or Snap-tree with a Jasmin Flower. Cat. 353. Ray Hist. Plant. Vol. 3. App. p. 4. pl. 3. Where you may see its Description at large, with its won-

derful Virtues in curing Wounds, Ulcers, Impostumes, Fluxes, &c.

8. Another sort of the last with a Bay Leaf, call'd by the Spaniards in Luzone, Yerva de los Paxarillos. Cat. 354. Kam. Ray Vol. 3. App. p. 5. pl. 5.

A. 9. Yellow English Hedge Snail. Cat. 91. This is wholly yellow, without any Girdle.

A. 10. Girdled, yellow English Hedge Snail. Cat. 92.

A. 11. Flesh-coloured English Hedge Snail. Cat. 93.

A. 12. Girdled, Flesh-coloured English Hedge Snail. Cat. 94. These Four are Varieties of the Common girdled Hedge Snail, and found in the same places.

Tab. 92. **A** Gibraltar Lizard finely embroidered on the Fig. 1. Back, with brown Nets and yellowish Specks, with blewish Spots on the sides. This beautiful Creature was presented me alive by my hearty Friend Mr. John Martyn Instrument Maker, it lived above 3 Months after it was brought over, without any Food, and dyed in the Winter.

2. A sort

2. A sort of *Bawm* call'd in *Luzone* *Mayana*, and by the *Spaniards* the *e*, *Oja Morada* *Kam. Ray App. p. 5. pl. 11.*

3. *Luzone* *Tricolor Bawm*. Cat. 349. This the *Spaniards* call *Paradisiaca*, and the *Indians* *Zarassa*, in *China* *Joadn*. They cultivate it for an Ornament in their Gardens. *Kam. Ray App. p. 5. pl. 9, & 10.*

4. Great, Girdled, *Brasile Cheese-shell*. Cat. 577. Of the shape with the next but much larger and girdled. I am obliged to that curious Anatomist Mr. George Rolfe Surgeon, for this and many other Rarities both from himself and Friends.

A. 5. Great River *Cheese-shell*. Cat. 97. Pretty common in divers *Rivulets* and *Ponds* about *London*.

A. 6. Small, many-twirl'd, thin River *Cheese-shell*. Cat. 98. It rarely exceeds the Figure: Found with the last.

A. 7. Tiny, double circled River *Cheese-shell*. Cat. 100. Very like *Tab. 35. Fig. 8.* but always found in *Fresh Waters*, viz. in the *Rivulets* about *Peterborow House Westminster*, where the 2 precedent are pretty common.

A. 8. Tiny, many Circled thick River *Cheese-shell*. Cat. 99. A little bigger than the last, this has about 6 Twirls very distinct on the flat side. Found with the last, but both very sparingly.

A. 9. Common girdled *Hedge Snail*. Cat. 90. Very frequent in *Hedges* and *shady Places*.

A. 10. Brown *Hedge Snail*. Cat. 95. A Variety of the last but not so common.

A. 11. Land *Cheese-shell*, with a sharp Edge. Cat. 101. *Mus. nostr. 734.* It has a deep Navel. Found in the *Hedges* between *Charlton* and *Woolwich*, but not common.

A. 12. *Richmond Cheese-shell*. Cat. 12. *Mus. Petiver. 735.* Found in a *Fit* there, with other *Fossils*.

13. A blackish *Luzone Butterfly* with Pearly Spots. Cat. 195. Sent me from the *Philippine Isles* by *Father Kamel*.

14. Black Pound'd *Madrala Slug-beetle*. Cat. 208. This amongst others, I have described in the *Philosophical Transactions*, N. 271. p. 861. 13.

A. 15. Small porose *Velvet Agarick*. Cat. 122. Found often growing to old Wood and Trees.

A. 16. *Urchin Mush-room*. Cat. 121. From its roughness underneath. The Reverend Mr. Adam Buddle that accurate English Botanist gave me this, gathered about *Hamstead*.

17. A netted Membrane which *Father Kamel* sent me of a certain Tree growing in the *Philippine Isles*. Cat. 398. *Tab. 93.* A Fragrant Herb with a small 3 leaved blew Fig. 1. Flower call'd in *Luzone* *Suganda*, *Tarabampac* or *Talacnafi*, it grows in standing Waters. Cat. 383. *Kam. Ray App. p. 9. pl. 1.*

2. *Luzone* *Vervain* with Mint like Leaves. Cat. 347. *Kam. Ray App. p. 6. pl. 12.*

3. *Luzone All-heal*. Cat. 351. See its many *Virtues*, &c. *Kam. Ray App. p. 5. pl. 12.*

A. 4. White *Coral Mush-room*. Cat. 118. Found in *Hamstead* and *Hornsey Woods* with the next.

A. 5. Yellow *Coral Mush-room*. Cat. 119. Differs from the last only in Colour.

6. Brown *Luzone Butterfly* with pale spotted Edges. Cat. 197. The Specks in the midst of the Wings on the under side, seem to have a changeable purplish Cast.

A. 7. English chain-headed Sea *Button-shell*. Cat. 89. This is somewhat prominent above the Navel, round its tip is a Chain-twirl of slant brown Streaks. Found on our own Shores, I have also observed it at *Catwick-op-zee* in *Holland*.

A. 8. Broad thin *Horse-Muscle*. Very common in the *Thames* and *Rivers* adjoining.

A. 9. Long thick *Horse-Muscle*. Found with the last and both in *Battersey Meadows*, about the *Windmills*.

A. 10. Great, narrow streakt *Pool Cockle*. Cat. 70. It's finer streakt than the Common, and much thinner for the Size, being as large as ones *Fist*. I found this about *Pool* in *Dorsetshire*, and on the neighbouring Shores.

A. 11. Small triangular *Cockle*. Cat. 71. This I observed about *Maulden*, and in the *Hundreds* of *Essex*.

A. 12. Land circled *Cheese-shell*. Cat. 103. Has a large deep Navel, and round rim. Found plentifully on a Sand Bank by the *Thames* near *Richmond*.

A. 13. Small, hairy, streakt Land *Cheese-shell*. Cat. 105. This is somewhat hairy, and for that reason often dirty; when full grown, it's ragged mouth'd.

A. 14. Small shining Land *Cheese-shell*. Cat. 104. Found with the last, at the bottom of Trees near wet (and in shady) Places.

A. 15. Red-waved, thread-girdled *Heart Cockle*. Cat. 65.

A. 16. English, rugged, *Purple-shell*. Cat. 110. From the Dye it yields. Found on our own Coasts in divers Places.

A. 17. *Cornwall Heart Cockle* with rugged Girdles. The common Size, neer that of the Figure. Found about *Cornwall* and the *Mediterranean Shores*.

A. 18. Thread-girdled, white *Cockle*. Cat. 63. Like *Fig. 15.* but with a much smaller Hinge and no cordated Impression at the Nose.

A. 19. Smooth, white, Fossil, *Chalk Blobbernose*. Cat. 52. Found in divers *Chalk-pits*, and filled with that Substance.

Tab. 94. Small broad *Scallop*. Cat. 67. The Ridges A. Fig. 1. S high and narrow, with broad deep Furrows rarely bigger than the Icon.

A. 2. White crumpled *Scallop*. Cat. 68. These are all mit-shapen, and seem irregular or maimed in some part.

A. 3. Small, white, thin *Spoon-Muscle*. Cat. 53. Somewhat broader than the next, and very brittle.

A. 4. Small, white, thin, *Spoon-hinge*. Cat. 54. From the shape of that part, it's much narrower at one end than the last.

A. 5. Red-cap, *Spoon-egg*. Cat. 56. Each of these Valves resemble a Tea-Spoon; and both shut, a small Egg.

A. 6. Many girdled *Spoon-egg*. Cat. 57. Both these are found on our Sea Coasts in divers Places.

A. 7. *Pool Spoon-Egg*. Cat. 55. Like the 2 last, but twice the Size and somewhat thicker. I gathered these about *Pool*, and against the tide of *Wight*.

A. 8. *Cornwall Purr*. Cat. 78. An elegant Bivalve with broad Rays and fine Capillary Waves.

A. 9. Red-waved *Bastard Tellen*. Cat. 81. A beautiful and uncommon Shell.

10. Small red *Virginia Agarick*. Cat. 602.

11. Small *Virginia Star-puff*. Cat. 601.

12. Scarlet *Scalloped Virginia Agarick*. Cat. 600.

13. A. B. C. D. *Midwives Bathing-herb*. Cat. 376. From its Use. In *Luzone* they call it *Casopangil*, and by the *Spaniards* there, *Yerva de las Paridas*. *Kam. Ray App. p. 6. pl. 17.*

14. *Docot docot Luzone*. A *Verticillate Water Herb*, whole Husks stick to Cloaths like *Burrs* or *Clivers*. See its *Virtues* *Ray App. p. 6. pl. 13.*

15. E. F. *Malabar Holley-leaved Bears-breech*. Cat. 352. *Ray App. p. 6. pl. 16.* Grows by *Rivers* sides.

Tab. 95. Round leaved *Luzone Corn-sallet*. Cat. 385. Fig. 1. R *Yerva del toston Hispanis*, i. e. *Nummularia*. *Kam. Ray App. p. 7. pl. 22.*

2, 3, 4, & 5. *Luzone Evergreen Orpine*. Cat. 384. *Kalanchanbay Chmensibus*.

6. *Chinese Santanguy* or *Flammula*. Cat. 379. Grows about a Yard and an half high, into many Branches, bearing at the top Scarlet *Jasmin-like* Flowers. *Kam. Ray App. p. 7. pl. 23.*

A. 7. *Kendal Fossil-cockle*, with hairy Streaks. Cat. 72. Brought me thence by Mr. Newby

A. 8. Small Hazel *Mush-room*. Cat. 123. This grows on the under side of the Leaves like a Spangle.

A. 9, 10. *Cockle Mush-room*. Cat. 195. Found in Woods growing out of the cut Branches of small Trees.

A. 11. Great Fossil *Dogs-tooth*. Cat. 84.

12. Small Latticed *Barbadoes Limpet*, with a crooked Nose tending to the right. Cat. 582.

13. Small, yellow-speckled *Barbadoes Gowry*. Cat. 586. Observed on those Shores by Mr. Carter Surgeon.

A. 14. Broadleaved stalkless *Dwarf-Moss*. Cat. 126. Found on Banks early in the Spring.

A. 15. *Doody's* pendent-headed hairy *Dwarf Moss*. Cat. 127. Very common on all the Brick-walls about *London*. This and the last are Microscopically Figured.

A. 16. Dr. *Sherard's* many headed *Glass Moss*. Cat. 152. From the Transparency of its Leaves.

Tab. 96. Heteroclite *Luzone Plant* with *Plantain* Fig. 1. A Leaves, Scarlet and blew tetrapetalose Flowers, with very small Seed in round Heads. Cat. 377. See its Description &c. *Kam. Ray App. p. 7. pl. 24.*

2. A. B. C. A brittle *Luzone Shrub*, with a long piped *Jasmin* Flower, and often 3 together. Cat. 370. *Ray App. p. 8. pl. 30.*

3. D. E. F. G. Flowers like the last, but the Pipe shorter and Husk larger, the green Leaves grow 3 together, round the Stalk. Cat. 371. *Ray App. p. 8. pl. 31.*

4. A *Luzone Shrub* with roundish hoary alternate Leaves, and a white Mossy Spike or Catkin. Cat. 392. *Ray App. p. 7. pl. 28.*

5. A kind of the last, with longer Leaves and white Spikes, full of small *Purslain* Seed in round Husks. Cat. 393.

6. Great *Hebrew Gowry*. Cat. 271. From the Lines between the Spots, which resemble those Characters. This is as big as a *Turkey Egg*.

7. Great *Leopard*. Cat. 273. A large smooth shining *Gowry*, which is used for a Polish or *Stick-stone*. 8.

- 8 Great Turtle Leopard Cat. 274. From the Island Mauritius. Its Belly very flat and black, as are its sides, its Hunch-back spotted with white.
9. Small Borneo Turtle Leopard. Cat. 275. Differs from the last, in being ten times less, with very small Specks.
10. Common, small, speckled India Gowry. Cat. 285. *Mus. Petiver.* 712. This has a tawny Belly and Sides, with purple tips, it's a pretty but common Shell.
11. Small Speckle-belly'd India Gowry. Cat. 286. About the Size of the last, but differently speckled.
12. Small, speckled, white-bellied Gowry. Cat. 287. Its tips spotted with black, and Belly all white, speckled like the last, but a Size less.
- Tab. 97. **C** Apopot Luzon. A sort of Wormwood of a Parsly Savour. Cat. 339. It flowers in February. See its Virtues Ray App. p. 8. pl. 1.
2. A Chinese Featherfew with double white or blush Flowers. Cat. 337.
3. Another with a double yellow Flower. *Mus. Pet.* 786.
4. Popotan Luzone. A broad hoary leaved kind of Sea Tansy. Cat. 341. Ray App. p. 8. pl. 4.
5. A sort of broad and jagged-leaved yellow Sanicle, call'd in Luzone, *Sihiliban*, Turay, or Subo. Cat. 345. Ray App. p. 8. pl. 6.
6. Great Madras Argw Gowry. Cat. 276. I have also had it from Java and Borneo, but all decayed or dead Shells. The living ones are finely circled on the back with 4 large black Spots on its Belly.
7. Great, white, Egg Gowry. Cat. 277. This is brought from Amboina and other Parts of India, it's remarkable for its Bulk, Whiteness and Shape, having a smooth Mouth on one side.
8. Guinea Gowries *Mus. nostr.* 19. Commonly call'd Blackmoor's Teeth, and go in those Parts for Money. These are often used at Cards for Counters.
9. Smooth Blackmoor's Teeth. Like the last, but without Bumps.
10. Small, pale, girdled Liver Gowry, *Mus. nostr.* 710.
11. Small, black Gowry, with white Girdles, *Mus. nostr.* 711. This is pretty and common.
12. White Warty Gowry. Cat. 291. It has generally a Furrow along the Back, which is full of Warts, its Belly streakt from side to side.
13. Differs from the last in being less, its Mouth tipt with yellow, and the Warts not so distinct. Cat. 292.
14. Fork-mouth'd Wart Gowry. Cat. 294. The tips standing far out, distinguish it from the rest.
15. Warty Liver Gowry. Cat. 293. Its colour differs it from Fig. 12, 13.
16. Ifabella Gowry. Cat. 280. A Tawney Shell with black Streaks and Specks, its Belly white with Saffron tips.
17. Thick, Saffron-tooth'd Gowry. Cat. 281. By which, and a singular ridge on one side its white Belly, you may easily know it from the rest.
18. Nicholl's Venus Gowry. Cat. 288. It's an elegant Shell composed of pale Fields lightly speckled and others Amber-coloured, pounc'd with white. My curious Brother Mr. John Nicholls was pleas'd to make me a Present of this, and is the only one I have yet seen either in England or Holland.
19. Northumberland Gowry. Cat. 282. This is distinguisht from all others, in having a brown Spot like Buifes on each side.
20. Cumberland Gowry. Cat. 283. Like the last, but without the side Spots, and a much lighter Shell.
21. Freckled Olive Gowry. Cat. 284. A pale longish Shell, freckled with Olive Specks and often clouded on the Back.
22. Pap-nosed Gowry-kin. Cat. 295. A white Shell ridged cross the Back, with a Pap at each end, and the Belly notcht but on one side.
23. Small, thick, round Diper. Cat. 297.
- Tab. 98. **T** His seems a kind of *Acmella* with a conical naked Flower and Pellitory Leaves. Cat. 332. Ray App. p. 8. pl. 7.
2. A Variety of the next which by being brought into Gardens, grows with much broader and longer Leaves. Cat. 335. Ray App. p. 8. pl. 9.
3. A creeping kind of small Sea Marygold. Cat. 333. Ray App. p. 8. pl. 8.
4. Another Garden Degeneracy from the last, with deep jagged Leaves. Cat. 334. Ray App. p. 8. pl. 10.
5. A sort of Marygold much used in the Philippines both for Food and Physick. Cat. 336. Ray App. p. 8. pl. 12.
- 6, 7. A kind of *Marjoram* or *Stachas*, which they use in Luzone instead of *Betony*, and for its Fragrancy, put it into Sweet-bags and Pincushions. Cat. 346. Ray App. p. 8. pl. 18.
8. Light Molucca Cloath-shell. Cat. 244. S. B. 4. 9.
9. Heavy Molucca Cloath-shell. Cat. 245. S. B. 4. 10. I have described both these in the *Philosoph. Transact.*
- N^o. 274. p. 929. under N^o. 9. & 10. to which I refer you.
10. Marbled Luzone Stamper, with a flesh-coloured and black Mouth. Cat. 243.
11. Great Madras Partridge-shell. Cat. 251. This the Reverend Mr. Geo. Lewis sent me from Fort St. George.
12. Long, rib'd Luzone Partridge-shell. Cat. 253.
13. Small waved Luzone Partridge. Cat. 252. Mr. Joseph Himmer has also observed this on the Shores of Batavia.
14. Knotty-rib'd Madras Partridge. Cat. 254. Mr. Simon Hill brought me this from the Straits of Malacca and Sincapour. I have also had it from Java and Luzone.
15. Luzone Spiral Whelk, with bugle Twirls. Cat. 239.
16. Luzone Olive Whelk, with white Slants and Spots. Cat. 241.
17. Luzone Olive Whelk with white Specks. Cat. 240. This and the last are Varieties of the same Shell.
18. Luzone Serpentine Cake-shell. Cat. 229.
- Tab. 99. **T** Ayuru Luzone. A sort of *Gratiola* with rough notcht Leaves and blush Flowers. Cat. 358. Ray App. p. 10. pl. 16.
2. A kind of the last, with broad notcht hairy Leaves, and pale blew Flowers on long Stalks. Cat. 359. Ray App. p. 10. pl. 16.
3. Luzone Chickweed, with 3 or 4 small white 5 leaved Flowers, and as many plain Leaves at each Joynr. Cat. 367. Ray App. p. 10. pl. 17.
4. Another sort of *Gratiola*, with plain longish Leaves and small white Flowers. Cat. 360. Ray App. p. 10. pl. 18.
5. Alibangon Luzone. A sort of 4 petal Chickweed, with 3 small white Flowers commonly together. Cat. 368. Ray App. p. 10. pl. 19.
6. An odd sort of white Luzone Star-flower. c. 372.
7. Luzone Cudweed with a wheated Stalk. c. 372.
8. A sort of woolly-leaved Glasswort, call'd by the Spaniards in Luzone, *Varilla*. c. 324. Grows in marshy Places.
9. Common Indian Nautilus or Sail-shell. c. 267.
10. This elegant rugged Shell I have also received from Pulo Condore. c. 238.
11. Ceiram rib'd Partridge-shell. c. 255. First brought me thence by Mr. Sylvanus Landon.
12. Black Diamond Stamper. c. 257. S. B. 3. 5. & 4. 11. See its Synonyms and Description in the *Phil. Transact.* N^o. 271. p. 859. 5. & N^o. 274. p. 930. 11. I have had this from divers parts of India.
13. Black Madras curl'd Whelk. c. 284. It's found also in several other parts, viz. Bombay, Micowabi, &c.
14. Indian Diper. c. 296. S. B. 4. 6. *See At. Phil.* N. 274. p. 928. 6. where it's describ'd, &c.
15. Flat headed Luzone thick shell. c. 215.
16. A thin-rib'd Luzone River-shell. c. 222.
17. Luzone flat-headed various coloured Nerit. c. 225.
- Tab. 100. **P** Laner's Carthagea Admiral. *Papilio nigrescens major, agris albis & virecentibus.*
2. Naked Aleppo Locust. Cat. 141. This large wingless Insect, with many others, Mr. Sam. Daniel Surgeon brought me from Turkey.
3. Black Luzone Rhinocero's Beetle. Cat. 209. Both the Beetle and Design Father Kamel sent me.
4. Luzone Amaga. c. 391. A dwarf sort of black Ebony, with thick smooth Bay Leaves. Common in Bito and Abuiyo.
5. Long green Borneo Snake. *Mus. Petiver.* 105.
6. Deep-ridg'd Luzone Nerit. Cat. 226. S. B. 5. 25. This Shell, if lookt thro', is somewhat transparent, and discovers its white and black Interstices.
7. Great Madras Oviparous River round Shell. Cat. 217. The Reverend Mr. George Lewis Chaplain to the Factory at Fort St. George has sent me these Shells and their Eggs, which last he has observed laid by the River sides.
8. Its Operculum or Cover. Cat. 218.
9. Small Luzone River round Shell. Cat. 220. Sofo vel Sufu Luzone. Kamel At. Phil. N^o. 311. p. 2399. 16.
16. Its smooth, yellowish, shining Cover. Cat. 221.
11. Thin, rugged Luzone River Unicorn Shell. Cat. 265.
12. Borneo thorny curl'd Murex. Cat. 249. Mr. John Rance Surgeon first brought me this elegant Shell from that Island, Mr. Thomas Stewart Surgeon has also found it at Bencooling.
13. Luzone Sufu-shell. Cat. 223. Father Kamel says this is both a Land and Water-shell, it creeps up Trees and makes a sort of Noise. At. Phil. N^o. 311. p. 2399. 15.
14. Flat, edged Luzone Girdle-shell. Cat. 216. A pretty Shell, and the only one I have yet seen.
- N. B. All the Shells in this and the Two last Tables, that Curious Naturalist Father Kamel sent me from Luzone; several of which I have also had from other Parts.

GAZOPHYLACII

NATURÆ & ARTIS.

TAB. CI. East-India Plants and Shells.

FIG.

- 1
- 2
- 3 *Momordica fecunda* Botanicorum. Balsamina fœmina Dodo-næi. Mercurialis hortensis. *Camantigui* Luzonis. Kam. Ray Vol. 3. App. 9. Pl. 12.
- 4 *Apiastrum*. Luzonis *Papua*. Kam. Ray Vol. 3. App. 10. Pl. 2.
- 5 *Malva sylvestris fecunda*. Luzonis *Pales*.
- 6 *Malva sylvestris prima hederacea repens*. Kam. Ray Vol. 3. App. 10. Pl. 1.
- 7 *Malva sylvestris tertia*. Luzonis *Pamalis*, i. e. *Serparia*. Kam. Ray Vol. 3. App. 10. Pl. 3.
- 8 *Malva sylvestris quarta*. Luzonis *Palispalifu*. Kam. Ray Vol. 3. App. 10. Pl. 4.
- 9 *Cochlea auriculata*, fasciis castaneis, pulchre obliquiis. Collect. Petiv. 111. No. 297.
- 10 *Cochlea umbilico magno sinuoso*, maculis Castaneis. Collect. Petiv. 111. No. 298.
- 11 *Trochus dentatus*, ex fusco variegatus, nodosis fasciis circum-datus. List. H. C. Tab. 638. No. 26.
- 12 *Trochus nostras*, lineis latis oblique rubentibus. Mus. Pet. 849. p. 88.
- 13 *Buccinum brevirostrum claviculatum læve* ex croceo nebula-tum umbilicatum. List. H. C. Tab. 982. No. 42.
- 14 *Buccinum oblongum minus costis obtusis*. Collect. Petiv. 111. No. 299.
- 15 *Buccinum breve minus costis dense positis*. Collect. Petiv. 111. No. 300. p. 12.
- 16 *Buccinum ampullaceum rostratum striatum*, triplici ordine mu-ricum exasperatum. List. Hist. C. Tab. 902. Pl. 22.
- 17 *Buccinum rostratum*, triplici ordine muricum canaliculorum horridum, minus nigrum, ore purpureo
- 18 *Murex breve minus fasciis spinosis*. Collect. Pet. 111. No. 301.

TAB. CII. East-India Plants and Shells.

- 1 *Malva sylvestris quinta*. Luzonis *Padurut*. Kam. Ray Vol. 3. App. 11. Pl. 3.
- 2 *Alcea altera*, Luzon. *Colot colotan* & *Dalupan*. Kam. Ray Vol. 3. App. 11. Pl. 9.
- 3 *Sabdariffa*, Luzon. *Malacolotan*. Kam. Ray Vol. 3. App. 11. Pl. 11.
- 4 *Passia altera*, seu major. Kam. Ray Vol. 3. App. 11. Pl. 13.
- 5 *Passia congener*, Luzonis *Lingindayet*. Kam. Ray Vol. 3. App. 11. Pl. 14.
- 6 *Belmuscus Honorii Belli*, Luzonis *Ducummarucum Maricom*, *Calopi*. Kam. Ray Vol. 3. App. 11. Pl. 19.
- 7 *Althæa arborefcens*, Luzonis *Anabo*. Kam. Ray, Vol. 3. App. 12. Pl. 22.
- 8 *Althæa urens*, Luzonis *Anabo maybulu*, i. e. *pilesa*. Kam. Ray, Vol. 3. App. 12. Pl. 23.
- 9 *Patella minor fusca*, ovalis, intus variegata, extus striata alter-nis striis leviter muricatis.
- 10 *Buccinum Musicum undatum et maculatum*. List. Hist. C. Tab. 818, No. 32
- 11 *Buccinum dentatum album costis obliquiis*. Collect. Pet. 111. No. 303
- 12 *Buccinum brevirostrum productum ore dentato lividum*, læve sinuatum & apicibus donatum.
- 13 *Veneroides exilis alba fasciis duabus rufescentibus*. Collect. Pet. 111, No. 302
- 14 *Buccinum rostratum labro duplicato compressum cancellatum*. List. H. C. Tab. 939, No. 34
- 15 *Buccinum brevirostrum ex toto læve claviculatum*. List. Hist. C. Tab. 977, No. 33

- 16 *Buccinum utrinque productum fuscum striatum et leviter mu-ricatum*.
- 17 *Rhombus fasciis capillaribus fuscis cingulo medio albo*. Col-lect. Pet. 111. No. 304
- 18 *Rhombus major strictior, undatus et fasciatus, clavicula acuta productiore*. List. H. C. Tab. 722. No. 9.
- 19 *Rhombus major ex fusco, undatus et fasciatus, clavicula sulcata*. List. H. C. Tab. 724, No. 11
- 20 *Cochlea variegata parum aut leviter striata parte orbis supe-rioris cujusq; fortiore*. List. H. C. Tab. 593, No. 61
- 21 *Operculum album intus auritum*. Collect. Pet. 111. No. 305
- 22 *Dentale exiguum album læve*.
- 23 *Vermiculus rectus maximus*.

TAB. CIII. East-India Plants and Shells.

- 1 *Visco-Aloes fecunda*. Ray Vol. 3, App. p. 33. Pl. 5
- 2 *Visco-Aloes tertia*. Ray Vol. 3, Pl. 6
- 3 *Visco-Aloes quarta*. Ray Vol. 3, Pl. 7.
- 4 *Visco-Aloes quinta*. Ray Vol. 3, Pl. 8, & 9
- 5 *Visco-Aloes septima*. Ray Vol. 3, App. p. 34. Pl. 12
- 6 *Visco-Aloes octava*. Ray Vol. 3, Pl. 13
- 7 *Lan Hua Sinensium*. *Visco-Aloes nona*. Ray Vol. 3, Pl. 14
- 8 *Visco-Aloes decima*. Ray Vol. 3, App. p. 34, Pl. 15
- 9 *Visco-Aloes decima tertia*. *Talatalaroan* Indorum. Ray Vol. 3, App. p. 34, Pl. 18.
- 10 *Visco-Aloes decima quarta*. Ray Vol. 3, Pl. 20
- 11 *Visco-Aloes Luzon*. Camelli, No. 35
- 12 *Visco-Aloes Spatifera*. *Sangun May*. Luzon: Camelli. No. 36
- 13 *Visco-Aloes unifolia*, radice bulbosa, Camelli. No. 37.
- 14 *Visco-Aloes folio carinulato mucronato*, Camelli. No. 38
- 15 *Visco-Aloes folio lanceolato*. Camelli. No. 39
- 16 *Visco-Aloes*, *Pugapung* Indorum. Ray Vol. 3, App. p. 34, Pl. 21

TAB. CIV. Virginia Shells and Plants.

- 1 *Cochlea umbilicata fusca five variegata*, capillaribus striis le-viter exasperata. List. Hist. C. Tab. 70, 69
- 2 *Cochlea terrestris subfusca striata clavicula modice producta*, non umbilicata. List. Hist. Conchyl. tab. mut. 81, 82
- 3 *Cochlea terrestris Virg. minor, striata et umbilicata ore tri-dentino*. Act. Phil. No 246, p. 395. List. H. C. tab. 92, 92
- 4 *Buccinum exiguum rufum quinque orbium*. List. Hist. C. Tab. 22, 19
- 5 *Pectunculus perpusillus, rostratus*. List. H. C. Tab. 159. 15
- 6 *Buccinum ex viridi subflavum, Trochocides limbo quodam acuto, in medio orbe circumscriptum*. List. H. C. Tab. 111. 5
- 7 *Buccinum ex viridi subflavum, Trochocides tribus fasciis atro purpureis distinctum; item, ni primo orbe medio limbus quidam acutus*. List. H. C. Tab. 112, 6
- 8 *Buccinum ex viridi subflavum, duabus tantum fasciis atro pur-pureis circumdatum, clavicula productiore*. List. H. C. Tab. 113, 7
- 9 *Asarum Cyclamini folio*. Pluk. Phyt. Tab. 78, fig 2. *Spot-tea leav'd Virginia Asarabacca*. Mem. Cur. 1707, p. 227
- 10 *Arum triphyllum Virg. fl. pallido, pistillo atro-rubente* Morif. Hist. p. 3. Ray Vol. 3, p. 576. Pluk. Phyt. Tab. 77, Fig. 5.
- 11 *Cucurbitis minima, fructu ovali, nigro, lævi*. Sloan. Cat. Jam. Ray Vol. 3, p. 334. Pluk. Phyt. Tab. 85, Fig 5. *Small creeping Virginia Cucumber*. Mem. Cur. 1707, p. 231
- 12 *Lychneidea Blattariæ accedens, Virg. minor repens, hirsutis Camphorata foliis fl. fistulosis in umbellam dispositis*. Pluk. Phyt. Tab. 98, fig. 2. Ray Vol. 3, p. 490. *Small Savory leaved Virginia Stitchwort*. Mem. Cur. 1707, p. 227

- 13 Ornithogalo affinis Virg. flore purpureo pentapetaloide. Pluk. Phyt. Tab. 102, Fig. 3. Ray Vol. 3, p. 556. *Virginia purple Star of Bethlehem*. Mem. Cur. 1707, p. 228
- 14 Lychnidea umbellifera, Blattariæ accedens, Virgin. major repens, Pseudomelanthii foliis pilosis, fl. albo pentapetaloide fistuloso. Pluk. Phyt. T. 98, F. 1. Ray Vol. 3, p. 490, *Hairy Virginia Stitchwort*. Mem. Cur. 1707, p. 227
- 15 Fumaria filiquosa, radice grumosa, fl. bicorporeo, ad labia conjuncto, Virgin. Pluk. Phyt. T. 90, Fig. 3, Ray Vol. 3, p. 475, *Knobby rooted Virginia Fumitory with twin flowers*. Mem. Cur. 1707, p. 227
- 16 Pedicularis seu Cristæ Galli affinis Virg. Ajugæ multifido folio, apicibus coccineo, fl. pallidis in spicam congestis. Pluk. Phyt. T. 102, f. 5. Ray Vol. 3, p. 400, *Jagged leaved Virginia Rattle*. Mem. Cur. 1707, p. 228
- 17 Oxya purpurea Virginiana. Pluk. Phyt. T. 102, f. 4. Ray Vol. 3, p. 548. *Purple Virginia Wood Sorrel, with a Lilly root*. Mem. Cur. 1707, p. 228
- 18 Mufcus rupestris repens Virg. Pluk. Phyt. T. 100, f. 2. Ray Vol. 3, p. 32. *Small Virginia Wolfs-claw*. Mem. Cur. 1707, p. 227
- 19 Fœnum græcum phaeoloides Virg. fl. amplo cæruleo. Pluk. Phyt. T. 90, f. 1. Ray Vol. 3, p. 462. *Virginia kidney-bean with a large blue flower*. Mem. Cur. 1707, p. 227

TAB. CV. Virginia Shells and Plants.

- 1 Musculus lator, subfuscus cæruleis lineis radiatus. Liff. H. C. Tab. 152, 7
- 2 Musculus fuscus, angustior, ex altera parte cuneatim protensus. Liff. H. C. Tab. 151, 6
- 3 Ostrea Virginiana. Liff. H. C. Tab. 200, 35
- 4 Cochlea terrestris Virg. media, umbilicata, striata, ore undente, Act. Phil. No 246, p. 395, Liff. H. C. Tab. 91
- 5 Cochlea minor subrufa ore obliquo, Liff. H. C. Tab. 93, 93
- 6 Cochlea minima subrufa ore obliquo, Liff. H. C. Tab. 93, 94
- 7 Buccinum longum, tenuiter striatum, secundum orbes, Liff. H. C. Tab. 117, 12
- 8 Buccinum ex viridi subflavum tenuiore et longiore clavicula, Liff. H. C. Tab. 110, 4
- 9 Buccinum ex viridi subflavum, brevior clavicula, Liff. H. C. Tab. 110, 3
- 10 Bucanephyllon elatius Virginianum, Pluk. Phyt. Tab. 102, f. 3, Ray Vol. 3, p. 247. *Long leaved Side-saddle Flowers*. Mem. Cur. 1707, p. 229
- 11 Pyrolæ affinis repens Virginianus, Pluk. Phyt. Tab. 107, f. 1, Ray Vol. 3, p. 596. *Hoary leaved Virginia Mock Syringa*. Mem. Cur. 1707, p. 228
- 12 Ricinus parvus utens, foliis Quercinis, Virginianus, Pluk. Phyt. Tab. 107, f. 5, Ray Vol. 3, p. 112. *Oak-leaved Virginia Ricinus*. Mem. Cur. 1707, p. 229
- 13 Aristolochia Piftolochia caule nodoso, seu Serpentaria Virginiana, Pluk. Phyt. Tab. 148, f. 5, Ray Vol. 3, p. 394. *True Virginia Snake root*. Mem. Cur. 1707, p. 229
- 14 Fungus (ex stercore equino) capillaceus, capitulo rorido, nigro punctulo in summitate notato, Pluk. Phyt. Tab. 116, f. 7, Ray Vol. 3, p. 24, *Horje-dung Mushroom with dewy heads*. Mem. Cur. 1707, p. 229
- 15 Ranunculus nemorosus, Fragariæ fol. Pluk. Phyt. Tab. 106, f. 3, *Strawberry leaved Virginia Crowfoot*. Mem. Cur. 1707, p. 228
- 16 Ranunculus nemorosus, Aquilegiæ folio, Pluk. Phyt. Tab. 106, f. 4, Ray Vol. 3, p. 315, *Trifid Virginia Crowfoot*. Mem. Cur. 1707, p. 228
- 17 Phyllitis parva saxatilis Virg. per summitates foliorum radicata, Pluk. Phyt. Tab. 105, f. 3, Ray Vol. 3, p. 51, *Virginia Hartstongue with proliferous leaves*. Mem. Cur. 1707, p. 228
- 18 Nasturtium Bursæ Pastoris fol. Virg. fl. albo, filiquâ compressâ, Pluk. Phyt. Tab. 101, f. 4, Ray Vol. 3, p. 413, *Podded Virginia Cress, with Shepherd's Purse leaves*. Mem. Cur. 1707, p. 227

TAB. CVI. Virginia Plants and Shells.

- 1 Fungus pulverulentus Virginianus, caudice corallino, topiario opere contorto, Pluk. Phyt. Tab. 184, f. 5, Ray Vol. 3, p. 20. *Carved Virginia Puff-ball*. Mem. Cur. 1707, p. 230
- 2 Fungus pulverulentus pyriformis, fundo spongioso, Pluk. Phyt. Tab. 184, f. 8, Ray Vol. 3, p. 20, *Pear Puff-ball*. Mem. Cur. 1707, p. 230

- 3 Fungus pulverulentus granulatus, Pluk. Phyt. Tab. 184, f. 7, Ray Vol. 3, p. 20, *Granulated Virginia Puff-ball*. Mem. Cur. 1707, p. 230
- 4 Fungus phalloides parvus, Pluk. Phyt. Tab. 184, f. 6, Ray Vol. 3, p. 25, *Dogs-prick Mushroom*. Mem. Cur. 1707, p. 230
- 5 Fungus arboreus platyceros parvus. Pluk. Phyt. Tab. 184, f. 14, Ray Vol. 3, p. 22, *Small Hartshorn Mushroom*. Mem. Cur. 1707, p. 230
- 6 Hippuris exigua, fluviatilis, petræa, nuda, Pluk. Phyt. Tab. 193, f. 7, Ray Vol. 3, p. 104, *Small river stone Horsetail*. Mem. Cur. 1707, p. 230
- 7 Lychnis viscosa Virg. fl. amplo coccineo, seu Muscipula Regia, Pluk. Phyt. Tab. 203, f. 1, Ray Vol. 3, p. 488, *Scarlet Virginia Catch-fly*. Mem. Cur. 1707, p. 231
- 8 Cistus flore et odore Periclymeni, Pluk. Phyt. Tab. 161, f. 4. Ray Vol. 3, p. 492. *Woodbine flowered Virginia Cistus*. Mem. Cur. 1707, p. 229
- 9 Clinopodium angustifolium, non ramosum, fl. cæruleo, labio trifido, atro-purpureis maculis notato, Pluk. Phyt. Tab. 164, f. 3, Ray Vol. 3, p. 299, *Virginia Bugle*.
- 10 Orobanche radice fibrosa, summo caule foliis subrotundis, Pluk. Phyt. Tab. 209, f. 6, Ray Vol. 3, p. 595, *Round Virginia Rape, with a stringy Root*. Mem. Cur. 1707, p. 231
- 11 Orobanche flore pentapetalo cernuo, Pluk. Phyt. Tab. 209, f. 7, Ray Vol. 3, p. 595. *Virginia Rape, with a scaly stalk*. Mem. Cur. 1707, p. 231
- 12 Sanicula alba folio oblong mucronato, Pluk. Phyt. Tab. 59, f. 1, id. Tab. 222, f. 5, Ray Vol. 3, p. 509. *White flowered Virginia Sengreen*. Mem. Cur. 1707, p. 231
- 13 Lyfimachia non papposa, Tuberariæ foliis, hirsuta, fl. tetrapetalo rubello. Pluk. Phyt. Tab. 202, f. 8. Ray Vol. 3, p. 426. *Virginia Bottle-Kin, with hairy leaves*. Mem. Cur. 1707, p. 230
- 14 Lyfimachia non papposa, fl. luteo majore, filiqua caryophylloide minore. Pluk. Phyt. Tab. 203, f. 2. *Yellow Virginia Bottle-Kin*. Mem. Cur. 1707, p. 230
- 15 Buccinum minimum fluviatile tenue pellucidum, ore repando. Liff. H. C. Tab. 114, 8.
- 16 Cochlea neritodes, crassiuscula testa. Liff. H. C. Tab. 135, 35.
- 17 Cochlea trium orbium. Liff. H. C. Tab. 140, 46.
- 18 Cochlea Virg. e flavo viridescens, non fasciata. Liff. H. C. Tab. 127, 27.
- 19 Cochlea pulla minima compressa. Liff. H. C. Tab. 139, 44.
- 20 Cochlea compressa minima. Liff. H. C. Tab. 139, 45.

TAB. CVII. Virginia Plants.

- 1 Chrysanthemum villosum, disco luteo, quinis petalis ornato. Pluk. Phyt. Tab. 242, f. 3, Ray Vol. 3, p. 229. *Small Nettle leaved Virginia Sun-flower*. Mem. Cur. 1707, p. 231.
- 2 Chrysanthemum hirsutum, auriculato Dulcamaræ folio. Pluk. Phyt. Tab. 242, f. 4. Ray Vol. 3, p. 212. *Small Virginia Trefoil Sun-flower*. Mem. Cur. 1707, p. 231.
- 3 Solanum triphyllon, tripetalo fl. atro-purpureo, in foliorum sinu absque pediculo sessili. Pluk. Phyt. Tab. 111, f. 6. Ray Vol. 3, p. 351. *Trefoil Herb of Paris of Virginia*. Mem. Cur. 1707, p. 229.
- 4 Orobanche verna, radice dentata. Pluk. Phyt. Tab. 211, f. 2. Ray Vol. 3, p. 595. *Spring Virginia Ladies Traces*. Mem. Cur. 1707, p. 231
- 5 Orobanche autumnalis radice dentata. Pluk. Phyt. Tab. 211, f. 1. Ray Vol. 3, p. 595. *Autumn Virginia Ladies Traces*. Mem. Cur. 1707, p. 231.
- 6 Ephemerum Phalangoides, flosculis arbuteis bullatis aureis, in spicam dispositis. Pluk. Phyt. Tab. 174, f. 5. Ray Vol. 3, p. 566. *Studded flowered Virginia Spiderwort*. Mem. Cur. 1707, p. 230.
- 7 Iris Virgin. pumila, seu Chamæiris verna angustifolia, flore purpureo-cæruleo, odorato. Pluk. Phyt. Tab. 196, f. 6. Ray Vol. 3, p. 562. *Virginia Dwarf Flower-de-luce*. Mem. Cur. 1707, p. 230
- 8 Fungus barbatus fœtidus. Pluk. Phyt. Tab. 184, f. 10. Ray Vol. 3, p. 23. *Stinking bearded Mushroom*. Mem. Cur. 1707, p. 230.
- 9 Fungus campaniformis niger multa semina plana in se continens. Pluk. Phyt. Tab. 184, f. 9. Ray Vol. 1, p. 105. *Seminiferous Cup Mushroom*. Mem. Cur. 1707, p. 230.
- 10 Viola tricolor, foliis multifidis, cauliculo aphylo. Pluk. Phyt. Tab. 234, f. 3, id. 114, f. 7. Ray Vol. 3, p. 510. *Small jagged leaved Virginia Pansy*. Mem. Cur. 1707, p. 231.
- 11 Cistus semper-virens laurifolia, floribus eleganter bullatis. Pluk. Phyt. Tab. 161, f. 3. Ray Vol. 3, p. 492. *Studded flowered Virginia Cistus*. Mem. Cur. 1707, p. 229.

TAB. CVIII. Virginia Plants.

- 1 Frutex Coralloides marinus. Pluk. Phyt. Tab. 244. f. 4. *Banister's Whale-bone Coral.*
- 2 Aphyllon aquaticum. Pluk. Phyt. Tab. 138. f. 1. *Banister's Naked Water-weed.*
- 3 Filix mas, vulgari similis, pinnulis amplioribus, planis nec crenatis. Pluk. Phyt. Tab. 179. f. 2. Ray Vol. 3. p. 79.
- 4 Clematidis cucumerinis foliis. Pluk. Phyt. Tab. 163. f. 3. Ray Vol. 3. p. 327. *Virginia Twine Eupatorium.* Mem. Cur. 1707. p. 229.
- 5 Eupatorio affinis Americ. bulbosa, floribus squamosis calyculis confectis. Pluk. Phyt. Tab. 177. f. 4. Ray Vol. 3. p. 187. et p. 203. pl. 32. *Broad leaved Virginia Knap-weed, with a knobbed Root.* Mem. Cur. 1707. p. 230.
- 6 Jacea lutea Cichorii foliis minus laciniatis. Pluk. Phyt. Tab. 196. f. 1. Ray Vol. 3. p. 203.
- 7 Eryngium campestre Yuccæ foliis, spinis ad oras molliusculis. Pluk. Phyt. Tab. 175. f. 4. Ray Vol. 3. p. 239.
- 8 Lyfimachia corniculata maritima, sinuatis et pubescentibus foliis. Pluk. Phyt. Tab. 203. f. 3. Ray Vol. 3. p. 246. *Hoary, Poddied Virginia Willow-herb.* Mem. Cur. 1707. p. 231.
- 9 Convolvulus monococcus. Pluk. Phyt. Tab. 165. f. 4. Ray Vol. 3. p. 372.
- 10 Gentiana major Virg. fl. cæruleo longiore. Pluk. Phyt. Tab. 186. f. 1. Ray Vol. 3. p. 369.
- 11 Hypericum Virg. frutescens pilosissimum. Pluk. Phyt. Tab. 245. f. 6. Ray Vol. 3. p. 495.
- 12 Sedum petraeum teretifolium Virg. Pluk. Phyt. Tab. 223. f. 2. Ray Vol. 3. p. 508. *Virginia Rock Sengreen, with long leaves.* Mem. Cur. 1707. p. 231.
- 13 Ulmaria major trifolia, fl. amplo, pentapetalo Virg. Pluk. Phyt. Tab. 236. f. 5. Ray Vol. 3. p. 330. *Trifoliate Virginia Meadow-sweet.* Mem. Cur. 1707. p. 232.
- 14 Viola cærulea maxima, cucumerinis foliis hirsutis, Virg. Pluk. Phyt. Tab. 234. f. 2. Ray Vol. 3. p. 511. *Hairy pointed Violet.* Mem. Cur. 1707. p. 231.
- 15 Arisarum triphyllum. Pluk. Phyt. Tab. 148. f. 6.
- 16 Ephemerum Phalangoides Virg. majus erectum. Pluk. Phyt. Tab. 174. f. 4. Ray Vol. 3. p. 566. *Upright Virginia Dillily.* Mem. Cur. 1707. p. 230.

TAB. CIX. Virginia Trees.

- 1 Abies minor, pectinatis foliis, Virg. conis parvis subrotundis. Pluk. Phyt. Tab. 121. f. 1. Ray Vol. 3. D. p. 8.
- 2 } Acer maximum foliis trifidis et quinquifidis Virgin. Pluk.
3 } Phyt. Tab. 123. f. 4, 5. Ray Vol. 3. D. p. 93.
- 4 }
5 } Arbor Virginiana Pifhaminis, folio baccifera. Pluk. Phyt.
6 } Tab. 139. f. 3, 4. Ray Vol. 3. D. p. 121.
- 7 Carpinus Virginianus florescens. Pluk. Phyt. Tab. 156. f. 1. Ray vol. 3. D. p. 13.
- 8 Castanea pumilis. *The Chinquapin-bush.* Pluk. Phyt. Tab. 156. f. 2. Ray vol. 3. D. p. 7.
- 9 Cornus Americ. sylv. Domesticae similis, bacca cærulei coloris, elegantissima. Pluk. Phyt. Tab. 169. f. 3. Ray vol. 3. D. p. 58.
- 10 Malus Perfica dilaceratis foliis & veluti circumrosis. Pluk. Phyt. Tab. 204. f. 1. Ray vol. 3. D. p. 39.
- 11 Prunus sylvestris Virginianus. Pluk. Phyt. Tab. 216. f. 7. Ray vol. 3. D. p. 43.
- 12 Sassafras. *Anbuiba Pilonis.* Pluk. Phyt. Tab. 222. f. 6. Ray vol. 2. p. 1568, et p. 1618.
- 13 Arbor Zeylanica, Cotini foliis, subtus lanugine villosis, floribus albis, Cuculi modo laciniatis. Pluk. Phyt. Tab. 241. f. 4. Ray vol. 3. D. p. 124.
- 14 Guaiacana, Guaiaco Patavino affinis. *Pisbam.* Pluk. Phyt. Tab. 244. f. 5. Ray vol. 3. D. p. 50.
- 15 Tulipifera Lauri folio. Pluk. Phyt. Tab. 68. f. 4. Ray vol. 2. p. 1798.
- 16 Tulipifera conis erectis. Pluk. Phyt. Tab. 117. f. 5. et Tab. 243. f. 7. Ray vol. 6. p. 1798.
- 17 Vitis Vinifera. *White Fox-grape.* Pluk. Phyt. Tab. 249. f. 1. Ray vol. 3. D. p. 68.

TAB. CX. Canada Plants.

- 1 Angelica baccifera. Ray Hist. Plant. p. 661. 7. Park. p. 950. 6. Cornut. p. 75. *Canada All-heal.*

- 2 Polygonatum Virginianum. Ray. p. 666. 8. Park. 697. 7. Corn. 34. *Spiked Solomon's-seal.*
- 3 Polygonatum Americanum racemofum. Ray p. 666. 9. Park. 697. 8. Corn. 37. *Branched Solomon's-seal.*
- 4 Polygonatum racemofum perfoliatum. Ray p. 666. 10. Park. 698. 10. Corn. 41. *Small yellow Solomon's-seal.*
- 5 Rubus odoratus. Ray vol. 2. p. 1641. 5. Corn. p. 150. *Canada Sweet Bramble.*
- 6 Herba Paris rotunda radice. Ray p. 670. 2. Park. p. 390. 3. Cornut. 167. *Trefoil True-love.*
- 7 Aquilegia pumila. Ray p. 707. 8. Park. 1367. 1. Cornut. 60. *Red Columbine.*
- 8 Eruca maxima. Ray p. 813. 15. Park. 816. 3. Corn. 15. *Great Rocket.*
- 9 Fumaria filiquosa semper-virens. Ray p. 974. 2. Park. p. 989. 5. Cornut. p. 58. *Canada Ever-green Fumitory.*
- 10 Hedyfarum triphyllum. Ray p. 928. 4. Park. p. 1090. 10. Cornut. p. 45. *Canada Saw-pod.*
- 11 Terræ glandes. Ray p. 937. 8. Park. p. 1062. 6. Cornut. p. 201. *Canada Earth-nut.*
- 12 Calceolus Marianus. Ray p. 1232. 13. Park. p. 213. 3. Cornut. p. 205. *Canada Ladies-slipper.*
- 13 Hedera trifolia. Ray p. 1699. Park. p. 679. 5. Cornut. p. 97. *Trefoil Poison-berry.*
- 14 Hedera quinquefolia. Ray p. 1699. 12. Park. p. 680. 6. Cornut. p. 100. *Virginia Creeper.*
- 15 Jasminum hederaceum. Ray p. 1768. 1. Park. p. 385. 6. & p. 1679. Cornut. p. 103. *Canada Trumpet-flower.*
- 16 Trifolium Asphaltium. Ray p. 955. 1. Park. p. 716. 3. Cornut. p. 131. *Canada Mustard-kin.*

TAB. CXI. Canada Plants.

- 1 Adiantum fruticosum. Ray p. 148. 2. Park. p. 1049. Cornut. p. 6. *Canada Maiden-hair.*
- 2 Filix baccifera. Ray p. 145. 10. Park. p. 1044. 5. Cornut. p. 4. *Canada Berry fern.*
- 3 Asarum Canadense. Ray p. 208. 2. Park. p. 266. 2. Cornut. 25. *Canada Asarabacca.*
- 4 Pimpinella Maxima. Ray p. 402. 4. Park. p. 583. 4. Cornut. p. 147. *White Canada Burnet.*
- 5 Aster luteus alatus. Ray p. 336. 1. Cornut. p. 63. *Yellow welched Canada Marygold.*
- 6 Asteriscus latifolius autumnalis. Ray p. 269. 19. Park. p. 1676. 19. Cornut. p. 65. *Broad notchd Canada Star-wort.*
- 7 Aster ramofus annuus. Ray p. 270. 22. Park. p. 529. 4. Cornut. p. 194. *Great Canada Daisy.*
- 8 Chrysanthemum folio laciniato. Ray p. 339. 2. Park. p. 322. 10. Cornut. p. 179. *Canada Poison Marygold.*
- 9 Eupatorium cannabinum Enulæ folio. Ray p. 294. 2. Park. p. 595. 5. Cornut. p. 191. *Canada Hempdown.*
- 10 Cacalia Urticæ folio. Ray p. 292. 3. Cornut. p. 21. *White Canada Valerian.*
- 11 Solidago maxima. Ray p. 279. 8. Cornut. p. 169. *Canada Confound.*
- 12 Cacalia folio magis diviso. Cornuti p. 23.
- 13 Angelica lucida. Ray p. 435. 7. Park. p. 595. 5. Cornut. p. 197.
- 14 Angelica atro-purpurea. Ray p. 436. 7. Cornut. p. 199.
- 15 Cerefolium latifolium. Ray p. 430. 2. Cornut. p. 177.
- 16 Thalictrum Canadense. Ray p. 403. 3. Park. p. 265. 9. Cornut. p. 187.

TAB. CXII. American Climbers.

- 1 Periploca maxima, filiqua ovalis glabra. Plum. p. 81. Tab. 95. *Milky Dogs-bane.*
- 2 Apocynum Nerii flore albo maritimum. Plum. p. 82. Tab. 96. Ray vol. 3. p. 545. *White Bignon Dogs-bane.*
- 3 Brionia racemosa, foliis ficulneis. Plum. p. 83. Tab. 97. Ray vol. 3. p. 347. *Hop Bryony.*
- 4 Cucumis triphyllus, fructu variegato. Plum. p. 85. Tab. 99. Ray vol. 3. p. 333. *Trefoil Cucumber.*
- 5 Colocynthis flore albo fimbriato. Plum. p. 86. Tab. 100. Ray vol. 3. p. 332. *Bitter Fringe Gourd.*
- 6 Lupulus fructu hispido tricocco. Plum. p. 87. Tab. 101. Ray vol. 3. p. 104, & 107. *Climing Dalechamp.* Dalechampia scandens, Lupuli foliis, fr. hisp. tricocco. Plum. Nov. Gen. Pl. Am. n. 9, 17. Tab 38.
- 7 Convolvulus luteus polyanthos. Plum. p. 88. Tab. 102. Ray vol. 3. p. 379. *Yellow tufted Bindweed.*
- 8 Convolvulus coccineus folio anguloso. Plum. p. 89. Tab. 103. Ray vol. 3. p. 380. *Scarlet Hop Bindweed.*

9 Con-

- 9 *Convolvulus marinus catharticus*, folio rotundo, fl. purpureo. Plum. p. 89. Tab. 104. *Soldanella Brasiliensis*. Ray vol. 1. p. 726, & vol. 3. p. 380. *American Soldanella*.
- 10 *Convolvulus maritimus catharticus*, Acetosa folio. Plum. p. 91. Tab. 105. Ray vol. 3. p. 380. *Long Soldanella*.
- 11 *Phaeolus filiquis latis hispidis & rugosis*, fructu nigro. Plum. p. 92. Tab. 107. *Phaeolus Brasiliensis*. Ray vol. 1. p. 888, & vol. 3. p. 444. *Negro Coubage Horse-eye Bean*. Sloan. Cat. Jam. 68.
- 12 *Phaeolus flore amplo peltato*; filiquis nigris angulosis. Plum. p. 94. Tab. 108. Ray vol. 3. p. 440. *Winged Trefoles*.

T A B. CXIII. American Plants.

- 1 *Clematis folio bicorni*. Plum. p. 68. Tab. 83. Sloan. Cat. Jam. p. 104. Ray vol. 3. p. 341. *Furrowed Maracoc*.
- 2 *Clematis folio hederaceo*, fructu Olivæ formi. Plum. p. 70. Tab. 84. Cat. Jam. p. 104. Ray vol. 3. p. 339. *Olive Maracoc*.
- 3 *Clematis folio angusto trifido*, fructu Olivæ formi. Plum. p. 70. Tab. 85. Ray vol. 3. p. 339. *Trefoil Maracoc*.
- 4 *Clematis hirsuta foetida*. Plum. p. 71. Tab. 86. Sloan. Cat. Jam. p. 104. Ray vol. 1. p. 651. 7. *Stinking Maracoc*.
- 5 *Clematis flore puniceo*, folio lunato. Plum. p. 72. Tab. 87. Ray vol. 3. p. 342. *Moon Maracoc*.
- 6 *Clematis flore minimo pallido*. Plum. p. 74. Tab. 88. Sloan. Cat. Jam. p. 104, & 105. Ray vol. 3. p. 342. *Saffras Maracoc*.
- 7 *Prioris altera species*. Plum. p. 74. Tab. 89. *Egg Maracoc*.
- 8 *Clematis odoratissima polyanthes*. Plum. p. 75. Tab. 90. Ray vol. 3. p. 343. *Cluster Maracoc*.
- 9 *Clematis pentaphylla pediculis alatis*, fructu racemosa coccineo tricocco. *Cururu-ape*. Plum. p. 76. Tab. 91. Ray vol. 2. p. 1347, & vol. 3. p. 330. *Cinquefoil Cururu*.
- 10 *Clematis Aceris fructu*, folio anguloso. Plum. p. 77. Tab. 92. Ray vol. 3. p. 328. *Hop Maple*.
- 11 *Clematis baccifera*, folio umbilicato rotundo glabro et villosa. *Caapeba*. Plum. p. 78. Tab. 93. Ray Vol. 2. p. 1331, et Vol. 3. p. 343. *Velvet-leaf*.
- 12 *Clematis quadrifolia*, flore Digitalis luteo, claviculis aduncis. Plum. p. 80. Tab. 94. Ray Vol. 3. p. 541. *Quater Bignon*.

T A B. CXIV. American Plants.

- 1 *Clematis fructu Citriformi*, folio majore oblongo. Plum. p. 64. Tab. 80. *Murucuia guacu Margrav*. Ray Vol. 1. p. 649, et Vol. 3. p. 341. *Citron Maracoc*.
- 2 *Clematis polyphylla major*, fl. clavato, fructu Colocynthidis. Plum. p. 62. Tab. 79. Ray Vol. 3. p. 340, 14. *Palm Gourd Maracoc*.
- 3 *Clematis latifolia*, flore clavato, fructu Maliformi. Plum. p. 67. Tab. 82. Ray Vol. 3. p. 340. *Apple Maracoc*.
- 4 *Clematis polyphyllus*, flore crispato. Plum. p. 66. Tab. 81. Ray Vol. 3. p. 341. *Palm, curled Maracoc*.

T A B. CXV. American Plants.

- 1 *Saururus frutescens*, Plantaginis folio, fructu breviori. Plum. p. 58. Tab. 76. Ray Vol. 3. p. 642.
- 2 *Saururus botryitis arborefcens*, foliis Plantaginis. Plum. p. 57. Tab. 75. Ray Vol. 2. p. 1343, & Vol. 3. p. 643.
- 3 *Saururus hederaceus*, cauliculis maculosis. Plum. p. 50. Tab. 66. Ray Vol. 3. p. 642.
- 4 *Saururus humilis*, folio subrotundo carnosio. Plum. p. 53. Tab. 70. Ray Vol. 3. p. 643.
- 5 *Saururus arborefcens*, foliis amplis cordatis, non umbilicatis. Plum. p. 55. Tab. 73. Ray Vol. 3. p. 643.
- 6 *Saururus humilis*, folio carnosio acuminato. Plum. p. 54. Tab. 71. Ray Vol. 3. p. 643.
- 7 *Saururus repens*, folio lanceolato ad nodos villosus. Plum. p. 60. Tab. 78. Ray Vol. 3. p. 644.
- 8 *Saururus arborefcens*, foliis amplis, rotundis & umbilicatis. Plum. p. 56. Tab. 74. Ray Vol. 3. p. 643, pl. 16.
- 9 *Saururus minor procumbens*, fructu botryoide, folio crasso cordato. Plum. p. 54. Tab. 72. Ray Vol. 3. p. 642.

T A B. CXVI. American Plants.

- 1 *Colocasia hederacea*, sterilis, minor, folio cordato. Plum. p. 39. Tab. 51, lit. d, & Tab. 55. Ray Vol. 3. p. 582.
- 2 *Colocasia hederacea latifolia*. Plum. p. 37. Tab. 51, lit. a, & Tab. 52. Ray Vol. 3. p. 581.
- 3 *Arum hederaceum*, folio triphylo & aurito. Plum. p. 41. Tab. 51, e, & Tab. 58. Ray Vol. 3. p. 579.
- 4 *Arum hederaceum*, foliis bifectis, rigidis & sulcatis. Plum. p. 43. Tab. 51, f, & Tab. 59. Ray Vol. 3. p. 578.
- 5 *Arum arborefcens*, Sagittariæ foliis. Plum. p. 44. Tab. 51, g, & Tab. 60. Ray Vol. 3. p. 577.
- 6 *Arum caulescens*, Cannæ Indicæ foliis. Plum. p. 45. Tab. 51, h, & Tab. 61. Ray Vol. 3. p. 577, 29.
- 7 *Arum foliis rigidis angustis & acuminatis*. Plum. p. 47. Tab. 51, K, & 62. Ray Vol. 3. p. 578.
- 8 *Colocasia hederacea laciniata*. Plum. p. 38. Tab. 51, b, & Tab. 53. Ray Vol. 3. p. 582.
- 9 *Colocasia hederacea angustifolia*. Plum. p. 39. Tab. 51, c, & Tab. 54. Ray Vol. 3. p. 582.

T A B. CXVII. American Plants.

- 1 *Dracontium amplis foliis cordatis*, radice nodosa rubra. Plum. p. 48. Tab. 51. I. & Tab. 63. Ray Vol. 3. p. 585. *China or red Arum*.
- 2 Vide Tab. 116, fig. 8.
- 3 Vide Tab. 116, fig. 9.
- 4 *Arum hederaceum folio amplo perforato*. Plum. p. 40. Tab. 56. Ray Vol. 3. p. 578.
- 5 Vide Tab. 116, fig. 3.
- 6 Vide Tab. 116, fig. 4.
- 7 Vide Tab. 116, fig. 5.
- 8 Vide Tab. 116, fig. 6.
- 9 Vide Tab. 116, fig. 7. *Perréquet, or Willois Edder*.
- 10 *Dracontium hederaceum polyphyllum*. Plum. p. 49. Tab. 65. Ray Vol. 3. p. 585. *Tree Dragon*.
- 11 *Saururus repens folio orbiculari*, Nummulariæ facie. Plum. p. 52. Tab. 69. Ray Vol. 3. p. 641. *Round Eftitail*.
- 12 *Saururus arborefcens fructu aduncis*. Plum. p. 58. Tab. 77. Ray Vol. 3. p. 643.

T A B. CXVIII. American Plants and Shells.

- 1 *Saururus hederaceus triphyllus*. Plum. p. 52. Tab. 68. Ray Vol. 3. p. 641. *Round Trefoil Eftitail*.
- 2 } *Aristolochia longa scandens foliis Ferri equini effigie*. Plum. p. 91. Tab. 106. Ray Vol. 3. p. 395. *Forked Birthwort*.
- 3 }
- 4 }
- 5 *Bryonia fructu alato foliis auriculatis*. Plum. p. 84. Tab. 98. Ray Vol. 3. p. 348. *Spoon Climber*.
- 6 *Saururus hederaceus cauliculis maculosis minor*. Plum. p. 51. Tab. 67. Ray Vol. 3. p. 642.
- 7 Vide Tab. 117, fig. 4.
- 8 Vide Tab. 113, fig. 8.
- 9 Vide Tab. 113, fig. 1.
- 10 Vide Tab. 117, fig. 10.
- 11 *Buccinum tenuissime striatum ipso ore circinato*, cui etiam limbus latus & striatus. List. H. C. Tab. 26, No. 24.
- 12 *Patella alba paucis & valde eminentibus striis stellata*. List. H. C. Tab. 532, No. 11.
- 13 *Buccinum brevirostrum parvum striatum asperum ex albo nigroque variegatum*. List. Tab. 953, No. 3.
- 14 *Tellina crassa admodum leviter striata intus violacea*. List. Tab. 376, No. 218.
- 15 *Buccinum dentatum læve tenue fasciis angustis subruis depictum*. List. Tab. 844, No. 72.

T A B. CXIX. American Plants, &c.

- 1 *Matthiola fol. aspero subrotundo fruct. nigricante*. Plum. Nov. Gen. Plant. p. 16. Tab. 6.
- 2 *Dalechampia scandens Lupuli foliis fruct. hispidis tricocco*. id. p. 17. Tab. 38.
- 3 *Valdia Cardui folio*, fruct. subcæruleo. id. p. 11. Tab. 24.
- 4 *Caraguata latifolia clavata*. id. p. 10. Tab. 33.
- 5 *Renealmia ramosissima florib. variegatis & circinatis*. id. p. 37. Tab. 38.

- 6 Zanonía graminea perfoliata. id. p. 38, Tab. 38
- 7 Karatas foliis altissimis angustissimis & aculeatis, id. p. 10, Tab. 33
- 8 Bromelia pyramidata aculeis nigris. id. p. 46, Tab. 8
- 9 Maranta Arundinacea Cannacori folio. id. p. 16, Tab. 36
- 10 Tragia scandens longo Betonicæ folio. id. p. 14, Tab. 12
- 11 Camara trifolia purpurascens flore. id. p. 32, Tab. 2
- 12 Bihai amplissimis foliis, florum vasculis coccineis, id. p. 50, Tab. 3, vid. Oviedo, l. 7, c. 9
- 13 Pluknetia scandens Hederæ foliis ferratis, fruct. tetragono, id. p. 47, Tab. 13
- 14 Columea scandens phœniceo flore, fruct. albo, id. p. 28, Tab. 33
- 15 Bontia arborefcens Thymelææ facie, id. p. 32, Tab. 23.
- 16 Fuchsia triphylla, fl. coccineo, id. p. 14, Tab. 14
- 17 Lonicera fl. coccineo baccis nigris, id. p. 17, Tab. 37
- 18 Cameraria lata Myrti fol. id. p. 18, Tab. 29
- 19 Tabernæmontana lactescens Citrii foliis undulatis, id. p. 18, Tab. 30
- 20 Gerardia humilis Bugulæ foliis Asphodeli radice, id. p. 31, Tab. 12
- 21 Rondeletia arborefcens Tini facie, id. p. 15, Tab. 12
- 22 Castorea repens spinosa, id. p. 30, Tab. 17
- 23 Pisonia aculeata fr. glutinoso & racemoso, id. p. 7, Tab. 11
- 24 Besleria Meliffa Tragi facie, id. p. 29, Tab. 5
- 25 Arapabaca quadrifolia, fr. testiculato, id. p. 11, Tab. 31, vid. Margr. l. 1, p. 34
- 26 Isora Althææ foliis, fruct. breviori & crassiori, id. p. 24, Tab. 37
- 27 Rauwolfia tetraphylla angustifolia, id. p. 19, Tab. 40
- 28 Cornutia fl. pyramidato cæruleo, foliis incanis, id. p. 32, Tab. 17
- 29 Barleria Solani folio, fl. coccineo, id. p. 31, Tab. 31

TAB. CXX. American Plants, &c.

- 1 Brunfelsia fl. albo, fruct. croceo, molli, Plum. Nov. Gen. Pl. p. 12, T. 22
- 2 Ruellia humilis, fl. cæruleo, Aspodeli radice, id. p. 12, tab. 2
- 3 Vanilla fl. viridi & albo, fructu nigrescente, id. p. 25, tab. 28
- 4 Gesnera humilis, flore flavescente, id. p. 27, tab. 9
- 5 Pittonia arborefcens, chamædrifolia, major, id. p. 5, tab. 3
- 6 Kodda-pail palustris fol. oblongo & spongioso, ib. p. 30, tab. 39, H. M. tom. 2, Tab. 32, p. 63
- 7 Mentzelia foliis & fructibus asperis, id. p. 47, tab. 6
- 8 Lobelia frutescens, Portulacæ folio, id. p. 21, tab. 31
- 9 Roioe humi-fufum, fructu cupressino, id. p. 11, tab. 26
- 10 Cordia nucis Juglandis fol. flore purpureo, id. p. 13, tab. 14
- 11 Cortufa arundinacea, amplis canacori foliis, ib. p. 26, tab. 8
- 12 Lurnera frutescens, Ulmi folio, id. p. 15, tab. 12
- 13 Ceiba viticis foliis, caudice aculeato, id. p. 42, tab. 32
- 14 Cuete foliis oblongis & angustis fructu magno ovato, id. p. 23, tab. 16
- 15 Sapota fructu turbinato minore, id. p. 43, tab. 4
- 16 Nhandiroba scandens foliis hederaceis angulosis, id. p. 20, tab. 27
- 17 Bellonia frutescens, folio meliffæ aspero, id. p. 19, tab. 31
- 18 Raia scandens folio tamni. id. p. 33, tab. 29
- 19 Triumphetta fruct. echinato racemoso, id. p. 40, tab. 8
- 20 Icaco fructu ex albo rubescente, id. p. 44, tab. 5
- 21 Guajacum flore cæruleo, fructu subrotundo, id. p. 39, tab. 17
- 22 Eresia fol. Aquifolii longissimis, id. p. 8, tab. 25
- 23 Suriana foliis Portulacæ angustis, id. p. 37, tab. 40
- 24 Guazuma arbor Ulmifolia fructu ex purpureo-nigro, id. p. 36, tab. 18
- 25 Cupania castanea fol. fructu sericeo & racemoso, id. p. 45, tab. 19
- 26 Monbin arbor foliis fraxini, fructu luteo, racemoso, id. p. 44, tab. 22
- 27 Coa scandens, fructu trigemino, subrotundo, id. p. 8, tab. 35
- 28 Jabotapita pyramidato flore luteo, fructu rubro, id. p. 42, tab. 32

TAB. CXXI. American Plants, &c.

- 1 Bacephalon fructu racemoso rubro, id. p. 52, tab. 20
- 2 Bocconia racemosa, Sphondilii folio tomentosio, id. p. 35, tab. 25
- 3 Commelina Graminea latifolia flore cæruleo, id. p. 48, tab. 38
- 4 Guanabanus fructu aureo & molliter aculeato, id. p. 43, tab. 10

- 5 Rivina humilis, racemosa, baccis puniceis, id. p. 48, tab. 39
- 6 Palma coccifera vaginis ventricos & liratis, id. p. 3, tab. 1
- 7 Ximenia aculeata flore villoso, fructu luteo, id. p. 6, tab. 21
- 8 Dodonea, id. p. 20, tab. 12
- 9 Mamei magno fructu, persicæ sapore, id. p. 44, tab. 4
- 10 Calaba fol. citri splendens, id. p. 39, tab. 18
- 11 Cururu scandens triphylla, id. p. 34, tab. 35, e Serjania affinis
- 12 Hypericoides frutescens erecta fl. luteo, id. p. 51, tab. 7
- 13 Oldenlandia humilis Hyssopi folio, id. p. 42, tab. 36.
- 14 Petiveria Solani foliis loculis spinosis, id. p. 50, tab. 39
- 15 Serjania scandens, polyphylla & racemosa, id. p. 50, tab. 39
- 16 Mangles aquatica foliis subrotundis & punctatis, id. p. 13, tab. 15
- 17 Morifonia arbor Nucis Juglandis foliis, id. p. 36, tab. 23
- 18 Van Rhedia, fol. subrotundo, fructu luteo, id. p. 45, tab. 18
- 19 Persea Clusii 2, id. p. 44, tab. 20
- 20 Clusia fl. albo, fructu coccineo, id. p. 21, tab. 10
- 21 Borbonia fructu oblongo nigro, calyce coccineo, id. p. 4, tab. 2
- 22 Hernandia amplo hederæ fol. umbilicato, id. p. 6, tab. 40
- 23 Muntingia fol. sericeo molli fructu majori, id. p. 41, tab. 6
- 24 Caapeba fol. orbiculari, & umbilicato, lævi. id. p. 33, tab. 29
- 25 Malpighia Mali-Punici facie id. p. 46, tab. 36
- 26 Dioscorea scandens foliis Tamni. fructu racemoso, id. p. 9, tab. 26
- 27 Cainito fel. subtus aureo, fructu mali formi, id. p. 10, tab. 9

TAB. CXXII. American Plants, &c.

- 1 Saururus racemosus, seu Botryites, major, id. p. 51, tab. 12
- 2 Plinia fructu croceo, odorato, id. p. 9, tab. 11
- 3 Sloania amplis Castaneæ foliis fructu echinato, id. p. 49, tab. 15
- 4 Inga flore albo, fimbriato, fructu dulci, id. p. 13, tab. 19
- 5 Penæa arborefcens Buxi folio aspero, id. p. 22, tab. 25
- 6 Mancanilla Pyri facie, id. p. 50, tab. 30
- 7 Cæfalpina polyphylla, aculeis horrida, id. p. 28, tab. 9
- 8 Breynia Amygdali foliis laticribus, id. p. 40, tab. 16
- 9 Courbaril bifolia, flore pyramidato, id. p. 49, tab. 36
- 10 Arachidna quadrifolia villosa, flore luteo, id. p. 49, tab. 37
- 11 Parkinsonia aculeata foliis minutis, uni costæ adnexis, id. p. 25, tab. 3
- 12 Magnolia amplissimo fl. albo, fructu cæruleo, id. p. 38, tab. 7
- 13 Pereskia aculeata fl. albo, fructu flavescente, id. p. 35, tab. 26
- 14 Alpina racemosa alba Cannacori foliis, id. p. 26, tab. 11
- 15 Dorstenia Sphondilii fol. Dentariæ radice, id. p. 29, tab. 8
- 16 Brossea frutescens fl. coccineo fructu nigro, id. p. 5, tab. 17
- 17 Marcgravia scandens fructu radiatim posito, id. p. 7, tab. 29
- 18 Bonduc, vulgare majus polyphyllum, id. p. 25, tab. 39
- 19 Bauhinia aculeata fol. rotundo emarginato, id. p. 23, tab. 13
- 20 Musa fructu Cucumerino breviori, id. p. 24, tab. 34
- 21 Guidonia Ulmifolia flore niveo, id. p. 4, tab. 24
- 22 Tapia arborea, triphylla, id. p. 22, tab. 21. Pifo lib. 4, c. 17

TAB. CXXIII. Austrian Plants, &c.

- 1 Polygonatum latifolium ramosum. Ray Vol 1, p. 665. Clus. lib. 2, p. 276
- 2 Polygonatum angustifolium ramosum. Ray Vol. 1, p. 666 Clus. lib. 2, p. 277
- 3 Caryophyllus alpinus calyce oblongo hirsuto. Ray Vol. 2, p. 1003. Clus. lib. 3, p. 285
- 4 Auricula Uræ minima flore carneo & niveo. Ray Vol. 2, p. 1083. Clus. lib. 3, p. 305
- 5 Soldanella Alpina rotundifolia. C. B. 295. Clus. lib. 3, p. 308
- 6 Ranunculus alpinus humilis folio rotundo flore majore. Ray Vol. 1, p. 590. Clus. lib. 2, p. 234
- 7 Pulsatilla alba. Ray Vol. 1, p. 634. Clus. lib. 2, p. 245
- 8 Orobanchæ radice coralloide. Ray Vol. 2, p. 1229. Clus. lib. 5, p. 120
- 9 Sedum alpinum minimum folio cinereo flore candido. Ray Vol. 2 p. 1040. Clus. lib. 4, p. 61
- 10 Chamæiasme alpina. Ray Vol. 2, p. 1085. Clus. lib. 4, p. 62
- 11 Paronychia Sediformis flore luteo. Ray Vol. 1, p. 789. Clus. lib. 4, p. 62
- 12 Gnaphalium alpinum pulchrum. Ray Vol. 1, p. 296. Clus. lib. 3, p. 238
- 13 Tussilago alpina glabra. Ray Vol. 1, p. 160. Clus. lib. 5, p. 113

- 14 *Pyrola fruticans*. Ray Vol. 2, p. 1234. Clus. lib. 5, p. 117
 15 *Pyrola rotundifolia minor*. C. B. 191. 2. Clus. lib. 5, p. 118
 16 *Lunaria botryites ramosa Silefiaca*. Ray Vol. 1, p. 127. Clus. lib. 5, p. 119

T A B. CXXIV. *Austrian Plants, &c.*

- 1 *Bistorta minor*. Ray Vol. 1, p. 187. Clus. lib. 4, p. 69
 2 *Caryophyllata montana purpurea*. Ray Vol. 1, p. 607. Clus. lib. 5, p. 103
 3 *Caryophyllata montana flore pleno prolifero*. Ray Vol. 1, p. 607. Clus. lib. p. 104
 4 *Caryophyllata alpina Chamædryos folio*. Ray Vol. 1, p. 608. Clus. lib. 3, p. 351
 5 *Pinguicula Gefneri*. Ray Vol. 1, p. 751. Clus. lib. 3, p. 310
 6 *Thlaspi Globulariæ folio*. Ray Vol. 1, p. 832. Clus. lib. 5, p. 131
 7 *Sedum pratense purpureum*. Ray Vol. 1, p. 691. Clus. lib. 4, p. 59
 8 *Paralytica alpina major*. Ray Vol. 2, p. 1084. Clus. lib. 3, p. 300
 9 *Pyrola folio ferrato*. Ray Vol. 2, p. 1233. Clus. lib. 5, p. 117
 10 *Helleborine flore rotundo*. Ray vol. 2, p. 1232. Clus. lib. 2, p. 272
 11 *Ornithogalum luteum*. Ray Vol. 2, p. 1153. Clus. lib. 2, p. 189
 12 *Erica baccifera procumbens nigra*. Ray Vol. 2, p. 1631. Clus. lib. 1, p. 45
 13 *Vitis Idæa magna, five Myrtillus grandis*. Ray Vol. 2, p. 1487. Clus. lib. 1, p. 62
 14 *Chamæpericlymenum*. Ray Vol. 1, p. 655. Clus. lib. 1, p. 60, Pan. 88
 15 *Chamæ rubus faxatilis*. Ray Vol. 1, p. 654. Clus. lib. 1, p. 108
 16 *Chamæ morus Norwegicus*. Ray Vol. 1, p. 654. Clus. lib. 1, p. 118

T A B. CXXV. *Verona Plants, &c.*

- 1 *Stoebe capitata Rosmarini folio*. Ray Vol. 1, p. 323. Clus. p. 329
 2 *Clinopodium Creticum*. Ray Vol. 1, p. 554. Clus. p. 343
 3 *Caryophyllata alpina minor*. Ray Vol. 1, p. 608. Clus. p. 342
 4 *Clematis alpina cruciata*. Ray Vol. 1, p. 622. Clus. p. 335
 5 *Trachelium majus petræum*. Ray Vol. 1, p. 734. Clus. p. 333
 6 *Rapunculus alpinus corniculatus*. Ray Vol. 1, p. 744. Clus. p. 336
 7 *Ranunculus præcox Rutæ folio*. Ray Vol. 1, p. 596. Clus. p. 341
 8 *Thlaspi petræum myagryodes*. Ray Vol. 1, p. 822. Clus. p. 338
 9 *Teucrium sextum Clusii*. Ray Vol. 1, p. 846. Clus. p. 336
 10 *Veronica faxatilis*. Ray Vol. 1, p. 848. Clus. p. 337
 11 *Trifolium alpinum Rhæticum astragaloides*. Ray Vol. 1, p. 956. Clus. p. 340
 12 *Cistus flore pallido maculato*. Ray Vol. 2, p. 1012. Clus. p. 327
 13 *Geranium argenteum alpinum*. Ray Vol. 2, p. 1061. Clus. p. 342
 14 *Lychnis alpina minima*. Ray Vol. 2, p. 1004. Clus. p. 341
 15 *Sedum tridactylites Alpinum majus album*. Ray Vol. 2, p. 1043. Clus. p. 337
 16 *Perfoliata alpina folio gramineo, five Bupleuron angustifolium alpinum*. Ray Vol. 1, p. 473. Clus. p. 347

T A B. CXXVI.

- 1 *Clematis peregrina, foliis Pyri incisis*. C. B. Ray Vol. 1, p. 621. Clus. lib. 1, p. 123
 2 *Myrtocistus Pennæi*. C. B. Ray Vol. 2, p. 1011. Clus. lib. 1, p. 68
 3 *Gramen Spart. secundum, panicula brevi folliculo inclusa*. C. B. Ray Vol. 2, p. 1259. Clus. lib. 6, p. 220
 4 *Arum latifolium alterum*. C. B. Ray Vol. 2, p. 1211. Clus. lib. 4, p. 73
 5 *Hemionitis minus vulg.* C. B. 354, 2. Ray Vol. 1, p. 135. Clus. lib. 6, p. 214
 6 *Chamæpitys adulterina*. Ray Vol. 1, p. 574. Clus. lib. 6, p. 185

- 7 *Phyfalus penicillis viridibus*. Rond. p. 428. Rump. Amb. Tab. 10, f. 6
 8 *Lepas maxima striata*. Col. aq. p. 11, T. 12
 9 *Cochlea marina Janthina*. Col. p. 23, t. 22. List. Tab. 572, No. 24.
 10 *Echinus dentatus compressus Spatago affinis*. Boccone. Recherches, p. 273
 11 A. } *Histrix mar. spinis triquetris*. Boccon. p. 314
 B. } *Spina Ejusdem*
 12 *Vermis marinus, ποροσκιπλέκτανος* Column. aquat. p. 21, t. 22
 13 *Stella marina altera, ἀκτιανορίαλη echinata, seu cometa marina*. Column. aqu. p. 5, t. 6

T A B. CXXVII.

- 1 *Marasita globularis racemosa*. Imper. Hist. p. 399.
 2 *Alumen capillare*. Imper. Hist. p. 398
 3 *Echinus spatagus nudus*. Imper. Hist. p. 685
 4 *Millepora*. Imper. Hist. p. 624. fig. 628.
 Corallio affinis planta marina. Chabrin. 574, 2. Bauh. pin. 367, 3.
 5 *Retipora*. Imper. Hist. p. 625, fig. 630. Ray Hist. p. 65, ch. 3, n. 1
 6 *Turbo decem tantum orbibus, &c.* Bonan recreat. p. 116, tab. 24
 7 *Nautilus five Nauplius*. Bonan p. 91, tab. 13
 8 *Stalactites in formam Lini*. Imper. Hist. p. 604. fig. 585
 9 *Cantharis fasciata*. Imper. Hist. p. 681. fig. 692
 10 *Phalangium*. Imper. Hist. p. 681, fig. 692
 11 *Turbo pentadactylus*. Bon. recreat. p. 123, tab. 87
 12 *Lacerta calcidica*. Imper. Hist. p. 691
 13 *Tellina Italica*. Bonan recreat. p. 104, fig. 47

T A B. CXXVIII. *Orchides Etruriæ.*

- 1 *Orchis angustifolia, lingua ferruginea*
 2 *Orchis montana flore ferrugineo, lingua oblonga*
 3 *Orchis lingua lata*
 4 *Orchis lingua ferruginea pilosa*
 5 *Poly-Orchis lingua albida*
 6 *Poly-Orchis lingua rubro lutea*
 7 *Orchis tragodes ligulis purpureis*
 8 *Orchis flore Simiam referens*
 9 *Orchis maritima flore hiantie purpureo*
 10 *Orchis maritima flore dilute rubente*
 11 *Orchis maritima flore candido*
 12 *Orchis palustris spica longa rosea*

T A B. CXXIX. *Res Naturales Etruriæ.*

- 1 *Ovum Raiæ Piscis*
 2 *Insectum perexiguum apterum*
 3 *Eruca Fungorum Spinosissima*
 4 *Fungus stipite cavo volva reflexa*
 5 *Fungus gracilis Allium redolens*
 6 *Funguli graciles lamellati pediculis fistulosis*
 7 *Fungi lamellati viscidis nivei*
 8 *Fungus gelatinosus*
 9 *Fungus perniciosus capitulo nigricante barbato*
 10 *Boletus phalloides*
 11 *Fungoides infundibuliformis*
 12 *Lichen terrestris nigricans compressum repens*
 13 *Musculus Polygoni folio*. Tournefort 326
 14 *Musculus Nummulariæ folio*
 15 *Lamium Ilvense*
 16 *Poly-Orchis macrophylla lingua oblonga quinque bulbis prædita*
 17 *Orchis anthropophora Ilvensis flore rubente folio maculoso*
 18 *Orchis anthropophora flore albo*
 19 *Orchis palmata flore viridi*. C. B. Pin. 86
 20 *Pseudo Orchis alpina flore herbaceo*
 21 *Arisarum flore in tenuem caudam abeunte*

T A B. CXXX. *Animalia Etruriæ.*

- 1 *Sorex griseus vulgaris*
 2 *Mus araneus*
 3 *Echinus minor spinulis fuscis*
 4 *Stella marina*
 5 *Vipera aquatica nigris punctis & abdomine flavescente*
 6 *Lumbricus*

- 6 Lumbricus terrestris
- 7 Sanguifuga
- 8 Centipes ex flavo rubescens
- 9 Centipes minor fuscus
- 10 Centipes major subfuscus

T A B. CXXXI. *Animalia Etruriæ.*

- 1 Rana minor subviridis digitis flavis
- 2 Rana major viridis punctis & maculis nigris
- 3 Lacerta viridis abdomine flavo
- 4 Lacerta minor e nigro fusca punctis albidis
- 5 Seps, Lacerta Chalcidica vel Chalcides. Colum. Aq. p. 35, tab. 36
- 6 Scorpio vulgaris Italicus
- 7 Araneus chelis scorpionis similibus

T A B. CXXXII. *Phalænæ Etruriæ.*

- 1 Phalæna maxima variegata & oculata. Phalæna maxima 2da. Mouffet
- 2 Phalæna major fusca oculis & undulis nigris
- 3 Phalæna major alis superioribus nigris striis flavescens, alis inferioribus puniceis, maculis nigris
- 4 Papilio major maculis ex flavo rubescens & flavis notatus.
- 5 Phalæna major subfusca maculis albidis
- 6 Phalæna pusilla subfusca marginibus ex luteo fuscis
- 7 Phalæna pusilla albida, striis incarnatis
- 8 Phalæna minor nivea punctis nigris
- 9 Phalæna pusilla albida alarum superiorum exteriori parte incarnato
- 10 Phalæna pusilla alis superioribus punctis nigris & flavis undulatis
- 11 Phalæna pusilla prioris, alarum inferiorum pictura
- 12 Phalæna pusilla albida tribus punctis nigris notata
- 13 Phalæna pusilla albida marginibus nigro puncto notatis
- 14 Phalæna pusilla coccinea alis & abdomine punctis nigris notatis
- 15 Phalæna pusilla priori similis, alis inferioribus fasciis nigris notatis
- 16 Phalæna pusilla flavescens quatuor punctis & marginibus nigris
- 17 Phalæna minor albescens fasciis cinereis
- 18 Phalæna minor candida lineis circularibus flavis
- 19 Phalæna minor flavescens marginibus incarnatis
- 20 Phalæna pusilla candida lineis & marginibus incarnatis
- 21 Phalæna pusilla maculis albis & punctis nigris notata
- 22 Phalæna pusilla cœrulescens marginibus nigris
- 23 Phalæna minor straminea marginibus nigris
- 24 Phalæna minor flavescens maculis fuscis triangularibus
- 25 Phalæna pusilla albida quatuor striis subfuscis notata

T A B. CXXXIII. *Papiliones Etruriæ.*

- 1 Papilio maxima nigra, alis utrisque, tam exterioribus quam interioribus, limbo lato albo cinctis, Ray Insect. p. 135, 136
- 2 Papilio alis amplissimis, flavicante & nigro coloribus pulcherrime variegatis, interioribus caudatis, Ray Insect. p. 110, No. 1
- 3 } dilute cœruleus marginibus fuscis
- 4 } alis albis nubeculis nigris
- 5 } ex albido cinereus, quatuor punctis nigris notatus
- 6 } castaneus quatuor punctis croceis notatus
- 7 } ex albo croceus oculis dilute cœruleis
- 8 } maculis albis rubris & croceis variegatus
- 9 } e nigro fuscus
- 10 } alis internis maculis albis & punctis nigris notatus
- 11 } fuscus punctis albis
- 12 Papilio pusillus ochroleucus marginibus nigris
- 13 } minor cauda bifurcata undis nigris
- 14 } pusilla flava cauda pilosa
- 15 } pusilla cœrulea oculis rubris
- 16 } minor ex flavo fuscus
- 17 } minor nigra punctis albis & annulo luteo notata
- 18 } pusilla præcedenti similis duobus annulis luteis notata
- 19 } pusilla nigra punctis albis notata
- 20 } minor nigra punctis rotundis albis & annulo rubro notata

T A B. CXXXIV. *Insecta Amboinæ.*

- 1 } Amboin. major e croceo-fulvoque mixta
- 2 } Amb. major croceus margin. nigris. agris albis
- 3 } Papilio Amb. major e nigro & albo variegatus
- 4 } luteus medius apicibus nigris
- 5 } albus medius margine lata fusca
- 6 } luteus medius marginibus nigris
- 7 } Cicada Amboin. media alis inferioribus luteo nigroq;
- 8 } striatus
- Amboin. vulgaris facie alis longioribus

T A B. CXXXV.

- 1 Phalæna maxima, fascia in mediis alis exterioribus lata, cum oculo incluso
- 2 3 Papilio medius oculis multis in omnibus alis donatus
- 4 5 Phalæna media alis exterioribus superne punctulatis fasciis fuscis, singulis alis subtus immaculatis
- 6 7 Phalæna maxima maculis rotundis in alis exterioribus
- 8 9 Phalæna maxima alis superne fasciatis subtus rivulosis
- 10 11 Phalæna major maculis numerosis insignita, nonnullis majoribus sinuatis
- 12 13 Phalæna minor alis exterioribus antice & postice nigris
- 14 Buceros maximus niger splendidus scapulis elongatis, cornubus deorsum arcuatis, rostro vero sursum arcuato
- 15 Scarabæus major oblongus totus vermicosus
- 16 Curculio maximus niger, elytris seriebus pluribus punctorum notatis

T A B. CXXXVI.

- 1 2 Papilio maximus e fusco-fulvus, subtus oculatus (*affinis Mer. Surin. t. 32*)
- 3 4 Papilio medius superne alis superioribus fuscis, inferioribus obscure purpurascens & pluribus punctis albis referatis, inferne ambabus alis fuscis linea albida transversa insignitis
- 5 6 Papilio parvus alis superne juxta corpus splendide cœruleis, versus extremitates fuscis, inferne cinereo-albis radiis transversis fuscis parallelis insignitis
- 7 8 Papilio minor alis bicaudatis
- 9 10 } Papilio parvus albus, alis superne ad extremitates fuscis
- 15 16 } & in medio puncto nigro notatis, inferne striis fuscis ornatis & fascia crocea ad margines circumdatis
- 11 12 Papilio medius alis inferioribus postice attenuatis, singulis inferne oculo unico insignitis
- 13 14 Papilio medius oblongus alis utrinque fuscis, pluribus punctis ex viridi-cœruleis notatis, & fascia lata crocea insignitis

T A B. CXXXVII. *Papiliones Americanæ.*

- 1 2 Papilio major fuscus alis superioribus utrinque fascia lata transversa coccinea & linea pallecente ad marginem inferiorem donatis, interioribus maculis coccineis prona parte notatis
- 3 4 Papilio major fuscus alis superioribus latis maculis coccineis superne notatis inferne pallidioribus
- 5 6 Papilio oblongus medius alis exterioribus maculis insignitis, alis interioribus non maculatis
- 7 8 Papilio oblongus niger alis superioribus linea ex viridicœrulea, inferioribus quaternis maculis coccineis notatis
- 9 10 Papilio major alis omnibus maculatis, interioribus margine crenatis exterioribus integris
- 11 12 Papilio minor fuscus, alis exterioribus singulis duabus latis maculis luteis insignitis, interioribus ad exortum cœruleis maculis albis aliquot ad marginem donatis

T A B. CXXXVIII.

- 1 Scarabæus Fullo Plinii. Ray Hist. Inf. 93
- 2 Scarabæus major oblongus levis, cornu rudimentum super narium gerens
- 3 Hydrocantharis. Mouff. Theatr. Inf. p. 164
- 4 Scarabæus Buceros dictus totus niger, brevis splendens minor, elytris fulcatis.

- 5 Scarabæus pilularius medius niger.
- 6 Scarabæus platyceros minor totus ex aureo splendente virefcens capite & dedibus nigris.
- 7 Scarabæus minor viridis alarum vaginis striatis.
- 8 Capricornus sulphureus, undulis nigris variegatus.
- 9 Scarabæus niger maculis latis luteis notatus.
- 10 Scarabæus Saltatrix medius capite nigricante, alarum vaginis rubris
- 11 Capricornus minor oblongus, elytris plumbei coloris, corpore fulvo.
- 12 Scarabæus capricornus dictus minor niger, pedibus cuprei coloris, elytris plurimis fasciis undatis albis notatis.
- 13 Scarabæus minor oblongus elytris fasciis duabus nigris insignitis.
- 14 Scarabæus capricornus dictus minor ex cinereo & fusco variegatus.
- 15 Scarabæus testudinis forma rufus, punctis nigris donatus.
- 16 Cimex rotundiusculus rubro nigroq; striatus.
- 17 Scarabæolus totus niger lævis, duobus cornubus brevibus donatus.
- 18 Scarabæus scapulis clypeiformibus, subfuscus, macula cinerea ad utrumque latus & ad rostrum, insignitus.
- 19 Curculio niger corpore longo.
- 20 Bombylius corpore longissimo, cornubus quasi Scarabæi donatus.
- 21
- 22 Bombylius niger, humeris luteis, alis atro-purpureis.
- 23 Musca Vespæ formis maxima nigra quadripennis alis cæruleis corpore annulis luteis cincto.
- 24 Musca Vespæ formis.
- 25 Libella alis fuscis maculis sulphureis notatis.
- 26 A Papilio minor
- 29 B } Phalæna.
- 30 C }

T A B. XXXCIX.

- 1 Scarabæus thoracis medio tuberoso, cornubus lateralibus divaricatis, Capitis cornu recurvatum supra ad basin processu villosio aucta, apice bifidum. Olear Tab. xvii. f. 2.
- 2 Scarabæus thorace bicorni toroso; Capitis cornu recurvato apice bifurco.
- 3 Buceros maximus scapulis tribus cornubus armatis.
- 4 Scarabæus maximus cornubus prælongis angustis, inferiore ferrato.
- 5 Scarabæus, thoracis cornu recto apice bifido, capitis cornu recurvo bifurcato.
- 6 Buceros maximus niger splendens.
- 7 Scarabæus ingens nasicornis, cornubus dentatis elytris cinereis.
- 8 Scarabæus maximus nasicornis, scapulis antice productis bifurcatis.

T A B. CXL. Surinam Insects.

- 1 Blatta, Merian. Tab. 1. *The American Cock-roach, or Kakkerlaca.* Mem. Cur. 1709. p. 10.
- 2 Papilio, Merian. Tab. 2. *The Grass Butterfly.* Mem. Cur. 1708. p. 290.
- 3 4 Eruca & Chrysalis ejusdem.
- 5 Papilio, Merian. Tab. 4. *The Broad-winged Cassada Butterfly.* Mem. Cur. 1708. p. 327.
- 6 7 Eruca & Chrysalis ejusdem.
- 8 Phalæna, Merian. Tab. 3. *The Great Sop Hawk-Moth.* Mem. Cur. 1708. p. 330. Vid. Eruca & Chrysalis ejusdem. Tab. xi. f. 4 & 5.
- 9 Exuviae Erucae. Merian. Tab. 3.
- 10 Phalæna, Merian. Tab. 6. *Dun Surinam Eyed Moth.* Mem. Cur. 1708. p. 332.
- 11 12 Eruca & Chrysalis ejusdem.
- 13 Phalæna, Merian. Tab. 6. *Marble Surinam Eyed Moth.* Mem. Cur. 1708. p. 332.
- 14 15 Eruca & Chrysalis ejusdem.
- 16 Vespæ, Merian. Tab. 1. *The Buff-Wasp.* Mem. Cur. 1709. p. 8.
- 17 Scarabæolus, Merian. Tab. 2. *Black Lady-cow, with a red back.* Mem. Cur. 1709. p. 10.
- 18 Eruca, &c. ejusdem.
- 19 Cicada, Merian. Tab. 5.
- 20 Ova Serpentis. Merian. Tab. 5. vid. Tab. 12. f. 8.
- 21 22 Chrysalis & Exuvia. Merian. Tab. 5. Mem. Cur. 1708. p. 328.

T A B. CXLI.

- 1 2 Eruca & Chrysalis. Merian. Tab. 7. Mem. Cur. 1708. p. 292. No. 21. vid. Papilio, Tab. 150. f. 3.
- 3 4 Eruca & Chrysalis. Merian. Tab. 8. Mem. Cur. 1708. p. 290. No. 14.
- 5 6 Eruca & Chrysalis. Merian. Tab. 9. Mem. Cur. 1708. p. 292. No. 20.
- 7 Papilio. Merian. Tab. 10. *Small Silver-spotted Surinam Cotton Page.* Mem. Cur. 1708. p. 293.
- 8 9 Eruca & Chrysalis ejusdem.
- 10 Phalæna, Merian. Tab. 10. *White Spotted Surinam Cotton Moth.* Mem. Cur. 1708. p. 333.
- 11 12 Eruca & Chrysalis ejusdem.
- 13 { Phalæna. Merian. Tab. 11. *The female or greater Hedge-Coral Hawk-Moth.* Mem. Cur. 1708. p. 328.
- 14 { Eruca flavescens annulis nigris notata, & spiculis nigris sex armata
- 15 { Eruca nigris guttulis & spiculis.
- 16 { Eruca fine spiculis; id est in ultimo statu ante transformationem ejus in Phalænam.
- 17 { Exuvia & Chrysalis ejusdem.
- 18 { Phalæna, Merian. Tab. 12. *The Oculated Banana Moth.* Mem. Cur. 1708. p. 332.
- 19 {
- 20 {
- 21 22 Eruca & Chrysalis ejusdem.

T A B. CXLII.

- 1 Phalæna. Merian. Tab. xi. *The Male or lesser Hedge-Coral Hawk-Moth.* Mem. Cur. 1708. p. 328.
- 2 Phalæna. Merian. Tab. xv. *Reddish Water-Melon Silk-Moth.* Mem. Cur. 1708. p. 334.
- 3 4 Eruca & Chrysalis ejusdem.
- 5 Phalæna. Merian. Tab. xiv. *The White Surinam Silk-Moth.* Mem. Cur. 1708. p. 333.
- 6 7 Eruca & Chrysalis ejusdem.
- 8 Phalæna. Merian. Tab. xvi. *Narrow Tawny Silk-Moth.* Mem. Cur. 1709. p. 5.
- 9 Eruca ejusdem.
- 10 Phalæna. Merian. Tab. xiv. *The Sower-Sop Hawk-Moth.* Mem. Cur. 1708. p. 331.
- 11 12 Eruca & Chrysalides ejusdem.
- 13 Papilio. Merian. Tab. xiii. *Blue Surinam Hair-streak.* Mem. Cur. 1708. p. 290.
- 14 15 Chrysalides ejusdem.
- 16 Papilio. Merian. Tab. xvi. *The Pale Casberw Eye.* Mem. Cur. 1708. p. 289.
- 17 18 Eruca & Chrysalis ejusdem.
- 19 Formicæ alatae. Merian. Tab. xviii. *The Flying Ant.* Mem. Cur. 1709. p. 8.
- 20 Formica. Merian. Tab. xviii. *The Naked Ant.* Mem. Cur. 1709. p. 8.
- 21 Araneus. Merian. Tab. xviii. *The buff prickled-haired Surinam Spider.* Mem. Cur. 1709. p. 12.
- 22 Araneus. Merian. Tab. xviii. *The Silver-backed Surinam Spider.* Mem. Cur. 1709. p. 12.

T A B. CXLIII.

- 1 Papilio. Merian. Tab. xxiii. *Buff Atlas.* Mem. Cur. 1708. p. 292.
- 2 3 Eruca & Chrysalis ejusdem.
- 4 5 Eruca & Chrysalis ex qua Papilio. Merian. Tab. xix. Mem. Cur. 1708. p. 294. No. 29.
- 6 7 Eruca & Chrysalis ex qua Phalæna. Merian. Tab. xxii. Mem. Cur. 1708. p. 332. No. 22.
- 8 Phalæna. Merian. Tab. xxi. *Small Tricolor Marbled Silk-Moth.* Mem. Cur. 1709. p. 6.
- 9, 10, 11, Eruca, Chrysalis, &c. ejusdem.
- 12 13 Eruca Cimicis. Merian. Tab. xxi. Vid. Tab. 150. f. 8.
- 14 Musca. Merian. Tab. 22. *The Grass Bee-fly.* Mem. Cur. 1709. p. 7.
- 15 16 Eruca & Chrysalis ejusdem.
- 17 18 Capricornus. Merian. Tab. 24. *The Greater and lesser reddish Surinam Goat-chaffer.* Mem. Cur. 1709. p. 10.
- 19 Eruca ejusdem.
- 20 Eruca ex qua Capricornus. Merian. Tab. 24. p. Vid. Tab. xi. f. 10.
- 21 Lacerta. Merian. Tab. iv. *The sawegard.* Mem. Cur. 1708. p. 287.
- 22 Musca, &c. Merian. Tab. xix.

T A B. CXLIV.

- 1 Papilio. Merian. Tab. xxxii. *The Brown, Grail'd, Surinam Admiral.* Mem. Cur. 1708, p. 291.
- 2 3 Eruca & Chrysalis ejusdem.
- 4 5 Papilio. Merian. Tab. 30. *The tricolor Longale.* Mem. Cur. 1708, p. 302.
- 6 Eruca ejusdem.
- 7 8 Papilio. Merian. Tab. 29. *The green, streak'd Jamaica Page.* Mem. Cur. 1708, p. 293.
- 9 10 Eruca & Chrysalis ejusdem.
- 11 12 Papilio. Merian. Tab. 31. *The Rose Carol.*
- 13 14 Eruca & Chrysalis ejusdem.
- 15 16 Papilio. Merian. Tab. 25. *Vanilla Butterfly.* Mem. Cur. 1708, p. 327.
- 17 18 Eruca & Chrysalis ejusdem.
- 19 20 Phalæna. Merian. Tab. 30. *The Oyl Tree Moth.* Mem. Cur. 1708, p. 333.
- 21 Eruca ejusdem.
- 22 23 Phalæna. Merian. Tab. 26. *Small, pied Cacao Moth.* Mem. Cur. 1708, p. 334.
- 24 25 Eruca, Chrysalis, &c. ejusdem.
- 26 27 Phalæna. Merian. Tab. 28. *Small, Reddish pied Silk Moth.* Mem. Cur. 1708, p. 334.
- 28 29 Eruca & Chrysalis ejusdem.
- 30 31 Phalæna. Merian. Tab. 27. *Small oculated Eave Moth.* Mem. Cur. 1708, p. 334.
- 32 33 Eruca & Chrysalis ejusdem.
- 34 35 Phalæna. Merian. Tab. 25. *The Pigmy Ocrea Fly.* Mem. Cur. 1709, p. 6.
- 36 37 Eruca & Chrysalis ejusdem.

T A B. CXLV.

- 1 Phalæna. Merian. Tab. 33. *The greater marbled Fig Hawk-Moth.* Mem. Cur. 1708, p. 329. An Mas?
- 2 Phalæna. Merian. Tab. 33. *The lesser brown Fig Hawk Moth.* Mem. Cur. 1708, p. 329. An Fæmina.
- 3 Eruca ejusdem.
- 4 5 Eruca & Chrysalis ex qua Phalæna. Merian. Tab. 34. Mem. Cur. 1708, p. 331.
- 6 7 Papilio. Merian. Tab. 35. *The brown Surinam Admiral.* Mem. Cur. 1708, p. 291.
- 8 9 Eruca & Chrysalis ejusdem.
- 10 11 Papilio. Merian. Tab. 35. *Small, transparent Longale.* Mem. Cur. 1708, p. 294.
- 12 13 Eruca & Chrysalis ejusdem.
- 14 15 Papilio. Merian. Tab. 36. *Dark Surinam Admiral.* Mem. Cur. 1708, p. 291.
- 16 17 Eruca & Chrysalis ejusdem.
- 18 19 Apis. Merian. Tab. 36. *The streak'd Tawny-Bee.* Mem. Cur. 1709, p. 7.
- 20 21 Phalæna. Merian. Tab. 37. *Small reddish Ocrea-Moth.* Mem. Cur. 1709, p. 5.
- 22 23 Eruca & Chrysalis ejusdem.
- 24 25 Papilio. Merian. Tab. 38. *Golden Butterfly with black guards.* Mem. Cur. 1708, p. 289.
- 26 27 Eruca & Chrysalis ejusdem.
- 28 29 Phalæna. Merian. Tab. 38. *Orange spotted Hawk-Moth.* Mem. Cur. 1708, p. 330.
- 30 31 Eruca & Chrysalis ejusdem.
- 32 33 Phalæna. Merian. Tab. 38. *Surinam Garden Hawk-Moth.* Mem. Cur. 1708, p. 331.
- 34 35 Eruca & Chrysalis ejusdem.
- 36 37 Phalæna. Merian. Tab. 40. *Pappaw Moth.* Mem. Cur. 1709, p. 6.
- 38 39 Eruca & Chrysalis ejusdem.
- 40 41 Papilio. Merian. Tab. 40. *The small Pappaw Butterfly.* Mem. Cur. 1708, p. 289.
- 42 Eruca ejusdem.

T A B. CXLVI.

- 1 Papilio. Merian. Tab. 43. *Red streak'd Maryland Page.* Mem. Cur. 1708, p. 293.
- 2 3 Eruca & Chrysalis ejusdem.
- 4 5 Papilio. Merian. Tab. 44. *Arnetto Butterfly.* Mem. Cur. 1708, p. 327.
- 6 7 Eruca & Chrysalis ejusdem.
- 8 9 Phalæna. Merian. Tab. 46. *Pale, Jasmine Hawk-Moth.* Mem. Cur. 1708, p. 329.
- 10 11 Eruca & Chrysalis ejusdem.
- 12 13 Phalæna. Merian. Tab. 42. *Small blue streak'd Musk Silk Moth.* Mem. Cur. 1709, p. 5.
- 14 15 Eruca & Chrysalis ejusdem.
- 16 17 Phalæna. Merian. Tab. 42. *Small, pale, Musk Moth.* Mem. Cur. 1708, p. 333.

- 14 15 Eruca & Chrysalis ejusdem.
- 16 17 Phalæna. Merian. Tab. 45. *Peacock-Crest Hawk Moth.* Mem. Cur. 1708, p. 330.
- 18 19 Eruca & Chrysalis ejusdem.
- 20 21 Phalæna. Merian. Tab. 44. *Small, marbled, Surinam Eave-Moth.* Mem. Cur. 1708, p. 334.
- 22 23 Eruca & Chrysalis ejusdem.
- 24 25 Phalæna. Merian. Tab. 41. *Small Bush-tail'd Battata Silk Moth, and Small Slender-tail'd Battata Silk Moth.* Mem. Cur. 1709, p. 6. An Male and Female?
- 26 27 Eruca & Chrysalis ejusdem.
- 28 29 Cimex. Merian. Tab. 41. *The great Cannacore Bugg.* Mem. Cur. 1709, p. 11.
- 30 31 Eruca & Chrysalis ejusdem.

T A B. CXLVII.

- 1 Phalæna. Merian. Tab. 47. *The Grey Surinam Vine Hawk-Moth.* Mem. Cur. 1708, p. 331.
- 2 3 Eruca & Chrysalis ejusdem.
- 4 5 Phalæna. Merian. Tab. 47. *The Purple Surinam Vine Hawk-Moth.* Mem. Cur. 1708, p. 331.
- 6 7 Eruca & Chrysalis ejusdem.
- 8 9 Bombylus. Merian. Tab. 48. *The black Humble-bee with yellow Girdles.* Mem. Cur. 1709, p. 7.
- 10 11 Eruca & Chrysalis ejusdem.
- 12 13 Cicada. Merian. Tab. 49. *Surinam Harp-fly Lierman Belgis.* Mem. Cur. 1709, p. 8.
- 14 15 Hexapoda ejusdem.
- 16 17 Cicada laternaria. Merian. Tab. 49. *The Lanthorn Cricket.* Mem. Cur. 1709, p. 8.
- 18 19 Capricornus cervus volans. Merian. Tab. 48. *The Surinam Stag Beetle.* Mem. Cur. 1709, p. 9.
- 20 21 Curculio. Merian. Tab. 48. *The greater Surinam Piper.* Mem. Cur. 1709, p. 10.
- 22 23 Eruca ejusdem.
- 24 25 Buprestis. Merian. Tab. 50. *The large golden Jaw-horn.* Mem. Cur. 1709, p. 10.
- 26 27 Eruca ejusdem.
- 28 29 Scarabæus. Merian. Tab. 50. *The black Batata Comber.* Mem. Cur. 1709, p. 10.
- 30 31 Eruca & Chrysalis ejusdem.

T A B. CXLVIII.

- 1 Phalæna. Merian. Tab. 52. *Orange Goliab Hawk-Moth.* Mem. Cur. 1708, p. 330.
- 2 3 Eruca & Chrysalidis nidus fericeus ejusdem.
- 4 5 Papilio. Merian. Tab. 53. *The azure Atlas.* Mem. Cur. 1708, p. 291.
- 6 7 Eruca & Chrysalis ejusdem.
- 8 9 Papilio. Merian. Tab. 51. *The Surinam Brimstone Butterfly.* Mem. Cur. 1708, p. 289.
- 10 11 Eruca & Chrysalis ejusdem.
- 12 13 Phalæna. Merian. Tab. 54. *Long tawny Silk Moth.* Mem. Cur. 1709, p. 5.
- 14 15 Eruca & Chrysalis ejusdem.
- 16 17 Phalæna. Merian. Tab. 54. *Small grey Moth, pounc'd and spotted with black.* Mem. Cur. 1709, p. 6.
- 18 19 Eruca ejusdem.
- 20 21 Vespa. Merian. Tab. 54. *The common Surinam Wasp.* Mem. Cur. 1709, p. 7.
- 22 23 Niduli argillacei.

T A B. CXLIX.

- 1 Phalæna. Merian. Tab. 55. *The Capsicum Hawk-Moth.* Mem. Cur. 1708, p. 328.
- 2 3 Eruca & Chrysalis ejusdem.
- 4 5 Papilio. Merian. Tab. 58. *The whitish Surinam Butterfly.* Mem. Cur. 1708, p. 289.
- 6 7 Eruca & Chrysalis ejusdem.
- 8 9 Musca. Merian. Tab. 58. *The blue bodied Bee-fly.* Mem. Cur. 1709, p. 7.
- 10 11 Chrysalis ejusdem.
- 12 13 Scorpio aquatica. Merian. Tab. 56. *The great Water Scorpion.* Mem. Cur. 1709, p. 9.
- 14 15 Musca. Merian. Tab. 58. *The green-bodied Bee-fly.* Mem. Cur. 1709, p. 7.
- 16 17 Eruca & Chrysalis ejusdem.
- 18 19 Phalæna. Merian. Tab. 57. *Grey, marbled, Guava Hawk-Moth.* Mem. Cur. 1708, p. 329.
- 20 21 Eruca & Chrysalis ejusdem.
- 22 23 Musca. Merian. Tab. 57. *Surinam Wasp-fly.* Mem. Cur. 1709, p. 7.
- 24 25 Eruca ejusdem.

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T A B. CL.

- 1 Scorpio aquatica. Merian. Tab. 56. *The naked Water-Scorpion*. Mem. Cur. 1709, p. 9.
- 2 Laternaria. Merian. Tab. 49. *The Lanthorn Cricket*.
- 3 Papilio. Merian. Tab. 7. *Brown, Admiral Atlas*. Mem. Cur. 1708, p. 292. Vide Eruca & Chrysalis ejusdem. Tab. 11, f. 1 & 2.
- 6 Phalæna. Merian. Tab. 3. *The great Sop Hawk-Moth*. Mem. Cur. 1708, p. 330. Vid. Tab. 1, f. 8.
- 4 5 Eruca & Chrysalis ejusdem.
- 8 Cimex. Merian. Tab. 21. *The Surinam Capricorn Bugg*. Mem. Cur. 1709, p. 11. Vide Eruca ejusdem. Tab. 143, f. 13.
- 7 Nidulus ejusdem.
- 9 Musca. Merian. Tab. 21. *The Surinam Tine-claw*. Mem. Cur. 1709, p. 11.
- 10 Capricornus. Merian. Tab. 24. *The yellow-spotted Goat-chaffer*. Mem. Cur. 1709, p. 10. Vid. Eruca ejusdem. Tab. 4, f. 20.
- 11 Lacerta. Merian. Tab. 23. *The Surinam Stellio*. Mem. Cur. 1708, p. 288.
- 12 Rana. Merian. Tab. 56. *The wing-eared Surinam Frog*. Mem. Cur. 1708, p. 288.

T A B. CLI.

- 1 Buccinum septem orbium, fasciis fere bicoloribus interdum tricoloribus iridis instar depictum. Lift. Tab. 15. No. 10. Bonan. p. 121. Tab. 66.
- 2 Araneus. Merian. Tab. 18. *The great Namdu, or Hairy Spider*. Mem. Cur. 1709, p. 11.
- 3 Papilio. Merian. Tab. 29. *The green, streak'd Jamaica Page*. Mem. Cur. 1708, p. 293.
- 4 Mantis. Merian. Tab. 27. *The broad shouldered green Mantis*. Mem. Cur. 1709, p. 9.
- 5 Buccinum maximum variegatum ac striatum. Lift. Tab. 959, f. 12. Buccina Magna, Bonan. p. 136, tab. 188.
- 6 Buccinum dentatum albidum, fasciis punctatis ex rufo nigricantibus depictum labro aspero. Lift. tab. 838, f. 65.
- 7 Capricornus. Merian. Tab. 28. *The great Tricolor Surinam Goat-chaffer*. Mem. Cur. 1709, p. 9.
- 8 Serpens. Merian. Tab. 5. *The Tun-belly Snake*. Mem. Cur. 1708, p. 288.
- 9 Buccinum brevirostrum ventricosum, maximum fasciatum clavicula muricata. Lift. Tab. 1006, f. 70. Bonan. f. 155, p. 131. Rumph. Tab. 23, f. 1, p. 79.
- 10 Echinus Spatagus. Bonan. f. 16, p. 92.
- 11 Tubuli vermiculares. Bonan. f. 20, p. 92.
- 12 Bufo. Merian. Tab. 59. (Pipa.) *Dorsiferous Surinam Toad*. Mem. Cur. 1708, p. 288.

T A B. CLII.

- 1 Concha vertice muricatum intorto. Colum. Purp. p. 29, tab. 30. Lift. Tab. 214. No. 49.
- 2 Berberi Jam. auritus. Pt. Amer. No. 424. Mytilopectunculus auritus rarior berberoides. Colum. Aq. p. 54, tab. 52. Lift. Tab. 224. No. 59.
- 3 Perdicea Jam. nodosa. Pt. Amer. No. 505. Mem. Cur. 1708, p. 190. No. 49. Buccinum brevirostrum labrosum crassum nodosum. Columella lata plana. Lift. Tab. 980. No. 22.
- 4 Buccinum recurvirostrum claviculatum striatum & asperum. Lift. Tab. 1018. No. 80.
- 5 Buccinum fluviatile nigrum striatum. Lift. Tab. Mut. 1018. No. 81.
- 6 Rhombus exiguus fere albidus clavicula productiore. Lift. Tab. 725. No. 13. Tab. Mut. 726.
- 7 Pectunculus Jam. ex toto lunulatus. Pt. Amer. 446. Mem. Cur. 1708, p. 222, 25. Pectunculus crassus maculatus striis imbricatis conspicuus. Lift. Tab. 323. No. 160.
- 8 Buccinum recurvirostrum ventricosum variegatum striis rarioribus exasperatum. Lift. Tab. 996. No. 61.
- 9 Concha Veneris Argus dicta.
- 10 Concha Veneris leviter striata utroq; capite valde rostrato. Lift. Tab. 711. No. 63. *The Jamaica Shuttle*.
- 11 Buccinum variegatum lævius Neritodes. Colum. Aquat. p. 18, tab. 16. Lift. Tab. 579. No. 34.
- 12 Cochlea Jam. alba crassa. Mem. Cur. 1708, p. 125. Cochlea nivea exotica. Fab. Col. Lift. Tab. 571. No. 22.
- 13 Patella subrufa, tenuiter striata five cancellata, vertice reflexo. Lift. Tab. 544. No. 30. Patella rostrata. Barbad. cancellata. Mem. Cur. 1708, p. 157.

- 14 Patella rugosa, alba admodum crassa. Lift. Tab. 544. No. 31. Pt. Americ. No. 486.
- 15 Patella alba hirsuta striata vertice intorto. Lift. Tab. 544. No. 32.
- 16 Buccinum brevirostrum claviculatum, orbibus superioribus lævibus, cæterum striatum fasciatum. Lift. Tab. 979. No. 37.
- 17 Buccinum Jam. vulg. imbricatum. Mem. Cur. 1708, p. 190. No. 20. Lift. Tab. 1001. No. 66. Bon. 132, f. 162. Rumph. 23, fig. 3, p. 81.

T A B. CLIII. Cochlearum Americanarum.

- 1 Burfa Jam. maxima nodosa. Mem. Cur. 1708, p. 190. No. 18. Buccinum, &c. Lift. tab. 1004. No. 69.
- 2 Unicornu Amer. muricatum. Mem. Cur. 1708, p. 190. No. 25. Buccinum, &c. Lift. tab. 1017. No. 79.
- 3 Musculus parvus latus, tenuiter striatus ex fusco purpurascens. Lift. tab. 365. No. 206.
- 4 Buccinum exiguum tenue ore circinato. Lift. tab. 20. No. 16.
- 5 Patella strijs nodosis donata. Lift. tab. 528. No. 6.
- 6 Buccinum utrinq; productum labro duplicato dentato quasi reticulatum. Lift. tab. mut. 935. No. 30. Bon. tab. 193, p. 137.
- 7 Pecten Jam. strijs lævibus. Mem. Cur. 1708, p. 221. No. 1. Pt. Americ. Cat. 415. Lift. tab. 168. No. 5.
- 8 Cochlea fasciata clavicula compressiore labro repando ex fusco variegata & fasciata. Lift. tab. 51. No. 49.
- 9 Vermiculus rufescens leviter striatus five cancellatus. Lift. tab. 547. No. 4. Vermiculus Barbadenfis tortilis fuscus. Mem. Cur. 1708, p. 126. No. 32.
- 10 Rhombus major cylindro pyramidalis undatim secundum longitudinem depictus clavicula compressa. Lift. tab. 781. No. 28.
- 11 Concha Veneris Jam. major maculata. Mem. Cur. 1708, p. 157. No. 9. Lift. tab. 698. No. 45.
- 12 Balanus major latus. Lift. tab. 442. No. 284.
- 13 Perdicea Jam. vulgaris. Mem. Cur. 1708, p. 190. No. 21. Pt. Americ. Cat. No. 504. Buccinum brevirostrum striatum fuscum undatis lineis albis depictum. Lift. tab. 984, No. 43.

T A B. CLIV.

- 1 Locusta marina flava, brachis longissimis. *The Thorney Lion Lobster*. Leo, Rondelet p. 542. Mem. Cur. 1708, p. 6. Jonst. tab. 4, f. xi.
- 2 Cancellus cordiformis. *Heart Crab*. Rond. p. 569. Jonst. tab. 7, f. 4. An Cancellus musculis degens?
- 3 Cancellus hirsutus apicibus chelarum nigricantibus. *The black toed Crab*. Rond. p. 568.
- 4 Astacus vulg. minor. *The small red Lobster*. Mem. Cur. 1708, p. 8.
- 5 Locusta marina vulgaris, dorso spinoso. *The Thornback Lobster*. Locusta, Rond. p. 535. Mem. Cur. 1708, p. 5.
- 6 Cancellus & Scyllarus. Rond. 533. Mem. Cur. 1708, p. 12. *The Hermit or Soldier Crab*.
- 7 Squilla cæolata five Cicada Æliani. Rond. p. 546. *The carved Prawm, or Sea Crickett*. Mem. Cur. 1708, p. 8.
- 8 Squilla Mauritanica lata, verrucosa. *The great broad Warty Prawm*. Squilla lata, Rond. p. 545. Mem. Cur. 1708, p. 8.
- 9 A. B. C. D. E. F. Turbines tuberosi. Rond. test. p. 89, f. 1. Jonst. hist. Tab. xi.

T A B. CLV.

- 1 Pediculus marinus. Rond. 576. *Sea Louse*. Mem. Cur. 1708, p. 11.
- 2 Pagurus. Rond. p. 561. *The great Spider Crab*. Mem. Cur. 1709, p. 3.
- 3 } Cancer { flavus undulatus. Rond. 566: *The Yellow Crab*.
- 4 } } maximus. Rond. p. 560. *May Crab*.
- 5 } } heracleoticus. Rond. p. 563. *Heraclea Crab*.
- 6 Squilla Crango. Rond. 547. *The Prawm*. Mem. Cur. 1708, p. 9. id. 1709, p. 3.
- 7 Squilla gibba. Rond. 549. *Common Shrimp*. Mem. Cur. 1708, p. 9.
- 8 Squilla parva. Rond. 550. *The Dutch Shrimp, or little Bunting*. Mem. Cur. 1708, p. 11. id. 1709, p. 3.
- 9 A. B. C. D. E. Turbines intra spongias viventes. Rond. test. p. 90.

MUSEI PETIVERIANI

CENTURIA PRIMA:

Rariora Naturæ continens, viz. Animalia, Fossilia, Plantas,

Ex variis Mundi Plagis advecta, Ordine digesta, & Nominibus propriis signata.

INSECTS, SHELLS, FOSSILS, &c.

- A. 1. *Papilio Sulphureus nobis*. diurnus medius. The Brimstone Butterfly. Among the first in the Spring.
- * A. 2. *Papilio Sulphureus pallidus*. The pale Brimstone Butterfly. I caught this in copulation with No. 1. April 29, 1695.
- * A. 3. *Papilio Leucomelanus*. Our Half-Mourner. Seen only in a wood near Hampstead, June and July.
- A. 4. *Phalæna hortensis alba maculis plurimis nigris insignita nob.* Lift. No. 9. Black-spotted Garden-Moth. In most gardens, about Midsummer, sheltering under currant and gooseberry-bushes.
- A. 5. *Phalæna hort. media cinerea, maculis fuscis notata nob.* Lift. No. 12. Common grey Garden-Moth with brown Spots. Common in gardens, and under the eaves of pales, &c.
- A. 6. *Perla minima merdæ olens. Musca Chrysopis dicta.* Lift. No. 104. Camerarius's golden-eyed Jakes-Fly. In gardens and woods, May, June, &c. If crushed, smell like human excrements.
- A. 7. *Eruca Geometrica pulchrè variegata Grossulariis depascens nob.* Lift. No. 9. Fine spotted Gooseberry-Caterpillar. Common in gardens; from the eggs of the Garden-Moth, at No. 4.
- A. 8. *Aurelia Grossulariata obscurè fusca, circulis luteis nob.* Lift. No. 9. Yellow-ringed Gooseberry-Coffin. Like the body of a wasp: in a garden, under the eaves of pales, held up by a cobweb; and about a fortnight broke out the Spotted Moth, No. 4.
- A. 9. *Scarabæus pediculus nob.* Lift. append. Tab. 6. fig. 11. *Pilularius Melanocyaneus Mer.* 201. Black and blue Beetle Mus. R. S. 169. Loufy Beetle. Aug. Sept. &c. fly in the evening: the males have a copper lustre; the females, a green.
- * A. 10. *Scarabæus minor æruginosus.* Our small Weasel-headed Verdigrise-Beetle. On common large stinging-nettle.
- * A. 11. *Scarabæus minor viridis.* Our small green Beetle. Copulate about Midsummer; on common dock.
- A. 12. *Cochlea alba major, cum suo operculo.* Lift. A. 111. fig. 1. & Aët. Phil. No. 105. fig. 1. *Cinerea rufescens fasciata leviter umbilicata* Lift. H. C. 1. 1. No. 46. Great edible lidded Snail. Plenty South of England.
- A. 13. *Cochlea hort. vulgaris Vulg.* Major pulla maculata & fasciata *hortensis* Lift. A. 113. fig. 2. Sib. 34. Aët. Phil. No. 105. fig. 5. Lift. H. C. 1. 1. No. 47. Common Garden-Snail. Woods and hedges; but in most gardens too plenty. Used for No. 12. and with the same success.
- A. 14. *Cochlea vulg. testa variegata Mer.* 207. Lift. A. 116. fig. 3. H. C. 1. 1. No. 54. Most common English Snail. Plenty.
- A. 15. *Cochlea maculata, unica fascia pulla, angustiorè que per medium anfractus insignita* Lift. A. 119. fig. 4. H. C. 1. 1. No. 53. Dr. Lister's marbled Meadow-Snail. Hedges, meadows, and rushes.
- A. 16. *Cochlea terrestris turbinata & striata Col. P.* p. 18. Lift. H. C. 1. 1. No. 25. *Cinerea, interdum leviter rufescens, striata, operculo testaceo cochleato donata* Lift. A. 119. & Aët. Phil. No. 105. fig. 2. Columna's striated Lid-Shell. Found plenty in a wood near Charlton.
- A. 17. *Concha Veneris exigua alba striata* Lift. A. 168. fig. 17. H. C. 1. 4. Sect. 9. No. 57. Found near Hartlepool, Durham, called Nuns.
18. *Concha Veneris Americana striata dorso sinuato. Striata cui summo dorso sinuato fusca macula* Lift. H. C. 1. 4. Sect. 9. No. 56. American Nuns. Coasts of Jamaica, &c.
19. *Concha Veneris Africana, seu moneta Nigritarum. Lata ponderosa aliquibus nodis inæqualis modo alba, modo citrina* Lift. H. C. 1. 4. Sect. 9. No. 59. Guinea Cowries. Called Simbi puri, and go as money.
- A. 20. *Asteria Plot. Ox.* p. 85. No. 16. Tab. 2. fig. 2, 3. *A. Shugburiensis nob.* Asterias vel Sphragis asteros Gesn. Lap. 37. fig. The Shugborough Star-Stone. Sternstein Germanicè. Found in many places in England, but particularly at Shugborough in Warwickshire.

TREES, HERBS, &c.

- * 21. *Aconroba Guineensis dicta, Arbor Africana Laurinis foliis.* A Guinea Tree called Aconroba. From Cabo Corfo (vulgarly called Cape-Coast) in Guinea. Being boiled in wine, and drank, is good in the small-pox.
- * A. 22. *Adiantum aureum minus foliis rigidis capitulis coronatis.* Our small Heath Goldilocks. On mole-hills and hillocks on heathy grounds.
- * A. 23. *Adiantum aureum medium in Ericetis proveniens.* Lesser Heath Goldilocks. In dry and open heaths.
- * A. 24. *Adiantum aureum acaulon pileis striatis.* Stalkless Goldilocks. In Ireland, frequently on trees and moist walls.
- * A. 25. *Adiantum aureum minimum pediculis brevibus, foliis capillaceis.* Glover's fine Goldilocks. Found on the hawthorn.
- Offic. A. 26. *Adiantum aureum majus vulgare.* A. aur. & *Polytrichum aureum* Dal. 120. *Polytrichum aureum majus* Park. fig. opt. 1052. Raii C. C. & Angl. H. Pl. 123. Syn. 19 & 28. Great Goldilocks. In woods and bogs.
- Offic. A. 27. *Adiantum nigrum* Offic. Raii C. C. & Angl. H. Pl. 152. Syn. 26 & 50. Common black Maidenhair. On old walls, and to the roots of trees in shady hedges and woods.
- * 28. *Adiantum nigrum speciosum Canariense.* Canary black Maidenhair. I observed it growing in his Majesty's stows at Hampton-Court.
- Pluk. 29. *Adiantum nigrum Chinense tenuiter divisum, pinnulis minimis obtusis, plerumque bifidis.* Raii H. Pl. 1854. Pluk. Tab. 4. fig. 1. China black Maidenhair with blunt forked leaves.
- Pluk. 30. *Adiantum nigrum lanuginosum Chinense.* Nigr. seu *Dryopteris Chinenfis lanuginosa* Raii H. Pl. 1854. Pluk. Tab. 4. fig. 2. Hoary black China Maidenhair. This rare fern, with No. 29, about Hamoy in China.
- Pluk. 31. *Adiantum nigrum Americanum foliis subtus albâ farinâ aperis.* Adiant. *Calomelanus Amer.* Rheed's fair black Maidenhair. Barbadoes, &c.
- Mal. 32. *Aquatica planta Malabarica tripetalos Inbame foliis fructu alato. Sagittæ affinis Malaburiensis latissimo folio floribus ex albo trifoliatis* Com. not. H. Mal. v. 11. Tab. 46. p. 95. Where they call it Ottel Ambel; and the Brachmans, or Brammins, Odeca Aloen. Malabar Tankweed with welted heads. Fort St. George.
- Pluk. 33. *Arachyda Indiæ utriusque tetraphylla* B. B. pr. *Arachus Americanus* Park. 1069. Raii H. Pl. 919. Four-leaved Earth-Nut. From Africa, Asia, and America.
34. *Arachyda trifoliata Guineensis.* An A. *Phaselodes Americana* P. B. pr. ? *Legumen trifolium sub terra fructum edens* Raii H. Pl. 919 ? Trefoil Ground-Bean. From Cape Coast.
35. *Arachyda Lusitanica.* *Arachus sub terra filiquifera Lusitanica* Park. fig. 1069. *Araco similis planta ex Hispania missa.* Ray H. Pl. 919. Portugal Ground-Pea. This I saw, both in flower and pod, Nov. 11, 1695. amongst many other curious plants, in a garden at Enfield.
- * 36. *Baccifera aromatica, arbor Zeylanica Peromalla dicta.* The Aromatick Peromalla of Zeylon.
37. *Baccifera Madraspatana Glycyrrhizæ foliis fructu coronato* Raii H. Pl. 1804. From Fort St. George, named Yellow Sanders.
- Pluk. 38. *Baccifera Madraspatana Visci arborei foliis latioribus. Arbuscula Madrasp.* Ligutri facie visci arborei colore & consistentiâ Pluk. 143. fig. 1. An Kanelli itti Canni H. Mal. v. 10. Tab. 5. p. 9. Dr. Plukenett's Madras-Berry with broad misleto leaves. From Fort St. George.
- * 39. *Bombu arbor Zeylanica, cujus folia Tinctoribus inferviunt.* The Zeylon Bombu, or Dying-Tree.
40. *Chamælea tricoccas* Raii H. Pl. 1710. Widow-Wayle. Grows in many places in France and Spain.

Mal. 41. *Chamaelea Malabarica* trifoliata spinosa. Frutex bacifer Indicus spinosus triflorus fl. spicatis fructu plano rotundo tricocco Raii H. Pl. 1612. Pluk. 95. fig. 5. The thorny Malabar Widow-Wayle. This the Malabars call Kaka-toddali; the Brach. Bortti. H. Mal. v. 5. Tab. 41. p. 81. Malabar, Fort St. George, and Coromandel.

42. *Colutea Scorpioides* Ger. fig. 1116. id. em. fig. 1299. Scorp. elatior & major frutescens H. Ox. 122. Tab. 10. Sect. 2. fig. 7. Scorp. major Park. fig. 227. Raii H. Pl. 923. Great Scorpion Sena. Geneva, and Montpellier.

43. *Colutea Scorpioides odorata* Alp. ex fig. 17. Scorp. od. Cretica H. Pat. H. Ox. 123. Raii H. Pl. 929. odorata Park. 227. Candy Scorpion-Sena. Crete and Aleppo. Flowers and pods in May and June.

* 44. *Colutea Scorpioides Guineensis Ornithopodii foliis*. Scorpion-Sena. Guinea.

45. *Colutea lanuginosa floribus parvis filiquis pilosis deorsum tendentibus*. An Kani tageri H. Mal. v. 9. Tab. 30. p. 55. Scorpion-Sena with pendulous hairy Pods. From Cape-Coast and the East-Indies.

Mal. 46. *Convolvulus Indicus minor*, folio anguloso fl. ex albo flavescente Com. not. *Sendera clandi* H. Mal. v. 11. Tab. 65. p. 133. Malabar Bindweed with angular Leaves. From Cape-Coast in Guinea, and Malabar.

Pluk. 47. *Convolvulus minimus procumbens Acetofella* foliolis barbulis ad imum quaternis summo apice tricuspatis Pluk. 147. fig. 5. Dr. Plukenet's small Halbert-leaved Bindweed of Madraspatan.

48. *Convolvulus tenuifolius five pennatus Americanus* Park. fig. 169. *Jasminum Millefolii* folio C. B. 398. Raii H. Pl. 730. Feather-leaved Bindweed, or Quamoclit. A beautiful plant both from the East and West Indies.

49. *Erica marina quibusdam Chabr. fig. 571. J. B. v. 3. l. 39. p. 799. fig. Tamarisco* similis maritima C. B. 395. *Fucus* folio *Erica Bot. Monsp.* Raii H. Pl. & Synops. 8. About Montpellier, and our coasts.

A. 50. *Erica marina alba frutescens*. Frutex marinus *Flabelli* formis cortice verrucoso obductus Raii Synops. 327. White shrubby Sea-Heath. From Gottenburgh in Denmark, and Cornwall.

* 51. *Erica marina elegantissima frutescens rutili coloris*. Golden Sea-Heath.

A. 52. *Ferrum equinum comosum* Park. fig. 1091. Germanicum filiquis in summitate Raii H. Pl. 930. Syn. 132 & 192. Tufted Horse-Shoe Vetch. In chalky high grounds, England.

Mal. 53. *Ferrum equinum majus Malabaricum filiquis in summitate Com. not.* It is called *Nata tali* by the Malabars, and *Nalabi* by the Brammins. H. Mal. v. 9. Tab. 18. p. 31. The Malabar Horse-Shoe Vetch. Fort Saint George.

Pluk. 54. *Filix pyramidalis Chinenfis*. Filicis e China genus molle, auricula ad pinnulae basin superne producta summo folio longius mucronato Pluk. 30. fig. 2. Fil. species e China delata nobis Raii H. Pl. 1853. Our China Steeple-Fern.

* 55. *Filix pyramidalis Madraspatana elegans pinnulis ferratis*. Mr. Sam. Brown's Steeple-Fern. Fort Saint George.

A. 56. *Fungus fimosus bracteolatus croceus*, Yellow spangled Cow-Dung Mushroom. Frequently found on cow-dung in Autumn.

Pluk. A. 57. *Fungus (ex stercore equino) capillaceus capitulo rotundo, nigro punctulo in summitate notato* Pluk. 116. fig. 7. Raii H. Pl. 1928. Mr. Banister's Virginia Mushroom with dewy Heads. On horse-dung about London.

* A. 58. *Fungus fimosus niveus ramosissimus mollis*. Tender branched Cats-Dung Mushroom. Found in cellars, on cats-dung, in Autumn.

59. *Gramen Dactylon angustifolium spicis villosis* C. B. 8. Raii H. Pl. 1273. Hairy perennial Cocks-Foot Grass. France and Italy.

* 60. *Gramen Dactylon Madraspatanum spicis pilosis*. Brown's hairy Cocks-Foot Grass. Madras and Quatra Serras.

* 61. *Gramen Dactylon Madraspatanum spicis villosis flavescentibus speciosis*. Golden hairy Cocks-Foot Grass. It spikes in February and March, in sandy grounds about Fort St. George.

* 62. *Gramen Dactylon Canariense pumilum aridatum*. Small Canary Cocks-Foot Grass. From the Canaries, and coast of Spain.

* 63. *Gramen Dactylon bicornae Creticum glumis lanuginosis aristatis*. An bicornae seu distachyophorum? Hairy forked Cocks-Foot Grass of Candy. Sometimes amongst Epithymum.

* 64. *Gramen Dactylon Madraspatanum spicis aristatis singulis, binis ternisve*. Panick hairy spiked Cocks-Foot Grass. It spikes in February and March, about Fort Saint George.

* 65. *Gumbae arbor Suratenfis fructu Aurantio simili*. From Surat, called the Gumbae-Tree.

A. 66. *Kali minus* Ger. em. fig. 535. *Minus album* Park. fig. 279. Min. alb. femine splendens. *Blitum marinum terebinthifolium Kali minus album dictum* Raii H. Pl. 298. *Blitum Kali min. alb. dictum* Raii Syn. 37 & 64. White Glass-Wort. In salt-marshes, and our sea-coast.

67. *Kali minus villosum* Raii H. Pl. 199. Hairy White Glass-Wort. Found on the shore about Montpellier.

68. *Kali minus foliis lucidis Bot. Monsp.* Raii H. Pl. 199. Dr. Magnol's shining white Glass-Wort. Found at Carthage, and No. 67. at Alicant.

* 69. *Kali Polygonoides latifol. Canariense*. Broad-leaved Canary Glass-Wort. I saw this in flower and seed, 1694. and 95. both at the royal garden at St. James's, and physic-garden at Chelsea. At the Canaries it is called *Corozone Celio*.

* 70. *Muscus Norwegicus umbraculo ruberrimo insignito*. Mr. Wheeler gathered it in Norway. It is called his Norway Bongrace-Moss.

Offic. 71. *Muscus pyxidatus* Offic. & Ger. em. fig. 1560. Park. fig. 1308. Raii Cat. Ang. & H. Pl. 113. Syn. 13 & 22. Common Cup-Moss. Flourishes from aut. to spring, old brick-walls.

* A. 72. *Muscus pyxidatus major rugosus*. Rough Cup-moss.

73. *Muscus multiformiter pyxidatus apicibus coccineis*. Plot. Hist. Staff. p. 199. Tab. 14. fig. 1. Raii Syn. 13 & 21. Scarlet tipped Cup-moss. In Staffordshire, and Putney heath.

* A. 74. *Muscus aquaticus pileis acutis*. Mr. Scampton's Peak-moor Moss. Found on the large stones in the rivulets among the peak-moors in Derbyshire.

* A. 75. *Muscus capillaris palustris flagellis longioribus bifurcatis*. Mr. Jacob Bobart's Golden Bog-moss. From the bogs near Oxford.

A. 76. *Muscus Corallinus five Corallina montana* Ger. fig. 1380. id. em. fig. 1572. Corall. mont. Park. fig. 1312. Cor. feu cornutus mont. C. B. 361. Tubulosus ramosissimus fruticuli specie Raii Cat. Angl. & H. Pl. 113. Syn. 13 & 21. Branched Coralline-moss. On moist dry heaths.

* A. 77. *Muscus Corallinus minor ramosissimus fuscus*. Our small brown Coralline-moss. On heaths.

* A. 78. *Muscus Corallinus faxatilis fœniculaceus*. Our Rock-hair. I first obs. on the highest rocks in Charley forest, Leicestersh.

* A. 79. *Musc. crustaceus leprosus scutellaris cinereus*. Mr. Pool's Ash-coloured Leprous-moss. On rocks near Nottinghamshire, and Tunbridge.

* A. 80. *Muscus crustaceus Leprosus scutis nigricantibus*. Our black spangled Leprous-moss. On some walls about London.

* A. 81. *Muscus terrestris vulgaris Cupressi foliis*. Cyprus-leaved Earth-moss. Common in moist woods.

A. 82. *Muscus terrestris latioribus foliis major seu vulgaris* Raii C. C. & C. Angl. H. Pl. 122. Common Earth-moss. In woods and shady places common.

* A. 83. *Muscus muralis repens sericeus fol. splendentibus*. Creeping Velvet-moss. It heads in April on brick-walls, and sometimes at the bottom of old trees.

A. 84. *Muscus cristam castrensem representans flavescent ramosus nemoralis Cassubicus Breynii in viridario suo Prussiae atque Cassubiae*. Breynius's plume-crested Earth-moss. I have found this in England.

* A. 85. *Muscus trichoides lanuginosus Alpinus*. Our small hairy Mountain-Goldilocks. I found this about Midsummer, 1692. on some rocks in Leicestershire.

* A. 86. *Muscus trichoides acaulos minor latifolius*. Mr. Doody's broad-leaved stalkless Goldilocks. First shewn me by him. I have since observed it on dry banks in Feb. and March.

* A. 87. *Muscus trichoides minor acaulos capillaceis foliis*. Mr. Doody's fine-leaved stalkless Goldilocks. This pretty moss I have observed, in company with him, in sandy places. It flourishes in April.

* A. 88. *Muscus trichoides minor vulgaris facie, foliis capillaceis*. Our fine-leaved small Goldilocks. I have found this, in March and April, on some pales at Hampstead and Hornsey.

* A. 89. *Muscus trichoides minor pileis magnis acutis*. The Extinguisher-moss. About Nottingham and Essex.

* A. 90. *Perficaria angustifolia ex singulis geniculis florens*. Narrow-leaved Lakeweed. Found with the common Arsemart on ditch-banks in meadows beyond Westminster.

Offic. A. 91. *Perficaria non maculata & Hydropiper* Offic. Ger. fig. 361. id. em. fig. 449. Raii C. C. & Angl. H. Pl. 182. Syn. 32 & 58. Common Arsemart. Flowers from June to autumn in ditches and watery places.

A. 92. *Perficaria pusilla repens* Ger. emac. fig. 450. Minor seu pusilla procumbens Raii Cat. Angl. & H. Pl. 183. Syn. 32 & 58. Small creeping Arsemart. In moist meadows and watery places.

Offic. A. 93. *Perficaria Chabr. fig. 564. maculosa* Offic. Dal. 141. & Ger. fig. 361. Raii C. C. & Angl. H. Pl. 183. Dead or spotted Arsemart. By brooks sides, and in moist watery places, and often amongst corn.

A. 94. *Perficaria Salicis folio perennis*. Perennis Potamogeton angustifolium dicta Raii H. Pl. 184. Syn. 32 & 58. Perennial Willow-leaved Arsemart. It flowers in June and July, in lakes, fish-ponds, &c.

Mal. 95. *Perficaria Madraspatana longiore folio hirsuto*. This the Malab. call Belutta Modela mucu; and the Bram. Sifori. H. Mal. v. 10. Tab. 80. p. 159. Malabar Willow-leaved Arsemart. It grows there by river-sides, as also at Fort St. George.

96. *Perficaria Virginiana* Mus. Trad. 153. frutescens maculosa Virg. fl. albo Park. fig. 857. H. Ox. 589. Raii H. Pl. 183. Parkinson's white Virginian Arsemart. In many gardens about London.

Offic. A. 97. *Soldanella & Brassica marina* Offic. Dal. 287. Raii Cat. Angl. & H. Pl. 726. Conv. maritimus. Soldanella dicta Raii Syn. 102 & 157. English Sea Bindweed, or Scottish Scurvy-Grass. On the sands by the sea-shores in divers places.

Mal. 98. *Soldanella Malabarica, cordato folio*. *Convolvulus maritimus Zeylanicus folio crasso cordiformi*. Schovanna Adamboe H. Mal. v. 11. Tab. 57. p. 117. Called by the Brammins Bangada Valli, in Zeylon, Bintambaru. Raii H. Pl. 1881. Indian forked-leaved Sea Bindweed. Ceylon, Malabar, and Coromandel.

Mal. 99. *Xanthium Malabaricum capitulis lanuginosis*. Betae folio Malab. femine Lappaceo Com. not. H. Mal. vol. 10. Tab. 59. p. 117. and called there Wellia Codaveli. Woolly-headed Ma-

Malabar Xanthium, or lesser Burdock. Grows also about Cape-coast, there called Tetrephoe; they boil it in broth for the flux.
100. Xanthium spinosum Lusitanicum P. B. pr. app. Pluk. 239. fig. 1. Lust. laciniatum validissimis aculeis munitum Turn. p. 348. The Portugal Thorny Xanthium. Physick garden at Leyden.

CENTURIA SECUNDA & TERTIA.

1. Serpentes Britannici, ENGLISH SERPENTS.

A. 101. **A**nguus vulgaris fuscus, collo flavescens, ventre albis maculis distinctus. Natrix torquata Raii Synopf. Animal. 334. Common English Snake. Found in moist brambly woods, and dunghills.

A. 102. *Cacilia Anglica* cinerea, squamis parvis, mollibus compactis. Blind, or Slow-Worm. Raii Syn. An. 289. In the spring, in old gardens, woods, and groves.

A. 103. *Vipera Raii* Syn. An. 285. V. *Anglica* fusca, dorso lineâ undatâ nigricante conspicua. Our English Viper or Adder. In low woods and dry banks.

A. 104. *Vipera Anglica* nigricans. An V. *nigra* Schwenck. Theriograph. Silens. 167. English Black-Adder. This our viper-catchers sometimes meet with.

2. Serpentes Exotici, FOREIGN SERPENTS.

105. **A**nguus *Borneocus* viridis familiaris pertenuis. An Serpens *Indicus*, gracilis viridis in arboretis & fruticetis degens *Abatulla* Ceylonensibus, i. e. Oculis infestus. Raii Syn. An. 331. This elegant and harmless Snake, the King of Borneo's sons kept to play with, from whom Mr. Silvanus Landon got it for me.

106. *Cacilia Borneoca* pulla, lineis nigris striata.

107. Serpens *Borneocus* ex fusco cyaneus, zonis albescentibus. From the same place with the two last.

108. Serpens variegatus major *Indicus*. From the East-Indies.

109. Serpens variegatus minor. From Jamaica.

110. Anguis petrifactus. Taken out of the stomach of a goat in Norway; brought me by Mr. Richard Wheeler.

3. Lacertæ, ENGLISH LIZARDS, &c.

A. 111. **L**acerta aquatica major mas, seu verruculis albis aspersis, membranulo ferrato in dorso extante. Salamandra aq. Raii Syn. An. 273. An L. aq. major Schw. Th. Sil. 149. The greater Male Newt.

A. 112. Lacerta aq. major femina s. verruculis albis aspersis, dorso plano. The greater Female Newt. Seen all the spring in most ditches and ponds about London.

A. 113. Lacerta aq. minor mas, seu laevis lituris nigris aspersis. The lesser Male Newt.

A. 114. Lacerta aq. minor fem. seu levis flavescens. Smaller Female Newt. Found with the former, in standing waters.

A. 115. Lacerta terrestris tardipes. The Slow-Eft. I first obs. 1692. under old wood at Scratpaf in Leicestershire, and this spring at Rugby in Warwickshire.

A. 116. Lacerta vulgaris Raii Syn. An. 264. The Swift Eft. In heaths.

117. Lacerta *Jamaicensis*, lineâ in dorso pyramidalis, indice posteriore longissimo. From Jamaica.

118. Lacerta *Indica*, squamis & verruculis rotundis, digitis latis internè rugosis. An Salamandra *Indica* Gecco dicta?

119. Lacertus volans seu Dracunculus alatus Bontii H. Nat. 59. fig. L. vol. *Indica* Raii Syn. An. 275. Flying Java Lizard.

120. Scincus *Cyprius* cinereus, squamis ex nigro alboque tessellatus. An Lacerta *Cypria* Scincoides Charlt. Exerc. An. 28. The chequered Scink. From Cyprus.

4. SEA-URCHINS, EGGS, BUTTONS, &c.

* 121. **E**chinus spatagus *Jamaicensis*.

* 122. *Echinus* Ovarius verrucis (seu aculeorum vestigiis) plurimis majoribus.

* 123. *Echinus* Ovarius *Barbadenfis* verrucis plurimis minoribus. Common on the shores of Barbadoes.

* 124. *Echinus* Ovarius *Barbadenfis*, radiis quinque geminis, venuste striatus. Found with the last.

* 125. *Echinus* compressus *Carolinianus*, radiis quinque totidemque foraminibus mirè ornatus. This strange *Echinus* from Carolina to Dr. M. Lister, to whose generosity I am deeply indebted for this curiosity, and many others.

5. Echinites, PETRIFIED SEA-URCHINS.

126. **E**chinites Cretaceus pyramidalis, quinque radiis tessellis interpositis. Cap-Stone. Found in Charlton chalk-pits.

127. *Echinites* parvus croceus quinque striis interlaminatus.

128. *Echinites* spatagodes Cretaceus. Found with 126. and called there Toads-Arse.

129. *Echinites* spatagodes Siliceus List. H. A. 224. Fig. 28. Plot. H. Oxon. Mitcham in Surry.

130. *Echinites* Cretaceus compressus. Chalk-pits, Charlton; called Rings.

Arbores, Frutices, TREES, SHRUBS.

* 131. **A**caria *Madraspatana*, spinâ basi latâ, foliis minimis.

* 132. *Acacia Madraspatana*, spinis geminis teretibus, foliis minimis.

* 133. *Aceris* folio subtus lanuginoso, Planta è *Madraspatan*. These three grow about Fort St. George.

* 134. *Adiantum Capitis bonæ spei* foliis trilobatis.

* 135. *Adiantum furtatum*. The last at St. Helena, where called Maiden-Hair.

* 136. *Ageratum Camphoratum* Cap. b. sp. Argemones folio. Tanacetum fl. luteo Camphoram redolens. Under this last name I received this plant finely preserved at the Cape.

* 137. *Ageratum* Cap. b. s. *Peucedani* folio.

* 138. *Agrifolium Palmense* Lauri folio. *Ari-vinio* Indigenis dictum.

* 139. *Althæa arbor* Insul. S. *Helena* Oleastri folio.

* 140. *Alfine Americana* Saxifragæ albæ folio.

* 141. *Amaranthus Angolensis* Acetosæ spicâ, folio Parietaræ.

* 142. *Amaranthoides* Portulacæ folio, *Guineensis* Lupuli capitulis.

* 143. *Amaranthoides* Polygoni folio hirsuto Lupuloides. Collected at St. Helena.

* 144. *Argyrocome* Cap. b. s. *Thymi* foliis.

* 145. *Arundinis* paniculâ planta è Cap. b. s.

* 146. After Cap. b. s. *Satureiæ* foliis recurvis.

* 147. After viscosus fl. luteo. D. Oldeland.

* 148. After fl. luteo, folio *Cymbalaræ*. D. Oldeland.

* 149. After Cap. b. s. *Elichrysi* folio lanuginoso, fl. albo. Collected at the Cape.

* 150. After *Virginianus* Senæ foliis. I had from America.

* 151. *Baccifera Palmensis* Pruni sylv. folio.

* 152. *Baccharis Palmensis* fol. subrotundo serrato.

* 153. *Bellis umbellifera Americana* Doronici Romani folio.

* 154. *Bellis umbellifera Amer.* foliis inferioribus Ranunculi flammei, longis pedic. infidentibus.

* 155. *Bromos* è *Cabenda*, polyspermos utriculatus. Gathered at Cabenda.

* 156. *Calendulæ* affinis feminibus membranaceis trigonis D. Oldeland.

* 157. *Campanula* Cap. b. s. foliis reticulatis spinosis.

* 158. *Carlina* Cap. b. s. *Coronopi* foliis subtus incanis.

* 159. *Centaurium minus* Virg. spicatum ramosiss. polyanthos.

* 160. *Centaurium minus* foliis Cordiformibus, D. Oldeland.

* 161. *Chamæcistus* Cap. b. s. *Roris Solis* foliis.

* 162. *Chamæcistus* Cap. b. s. folio crispo Chamædærys. Collected at the Cape of Good Hope, by the Rev. Dr. Lewis.

* 163. *Chrysanthemum Americanum* fl. mixto, marginibus foliorum purpureis.

* 164. *Chrysanthemum Amer.* triphyllum, marginibus foliorum asperis.

* 165. *Chrysanthemum* Cap. b. s. *Arbuti* folio.

* 166. *Cirsium Americ.* fl. singulari, squamis spiniferis, foliis albescentibus.

* 167. *Clinopodium* è *Cabenda* Parietaræ folio. At Cabenda near Angola.

* 168. *Cnicus* fl. aureo laevi D. Oldeland.

* 169. *Corruda Guineensis* foliis aduncis. Mr. Bartar sent me this from Cape-coast, named Malice-weed.

* 170. *Conophoros* Cap. b. s. *Oleandri* folio.

* 171. *Conophoros* Cap. b. s. *Laurocerasi* folio angustiori.

* 172. *Conophoros* Cap. b. s. folio in fummo dentato.

* 173. *Conophoros* Cap. b. s. *Linariæ* foliis fericeis rigidis.

* 174. *Conophoros* Cap. b. s. *Oleæ* angustiore folio. These five last were collected at the Cape.

* 175. *Convolvulus Angolensis* *Linariæ* foliis auriculatis ad basin bifurcatis.

* 176. *Conyza Angolensis* ferratifolia. This and the last Mr. Mafon gathered at Angola.

* 177. *Corallium nigrum Borneocum* ramulis virgultis. Mr. Sylvanus Landon brought me from Borneo.

* 178. *Corallium purpureum Virginianum*, virgulis teretibus. From Virginia.

* 179. *Corallium fuscum* virgulis ramosis. Virginia.

* 180. *Crocus cœruleus* Quinquenervi folio è Cap. b. s.

* 181. *Crocus* flore ex cœruleo & aureo variegato.

* 182. *Croco* affinis flore obsolete rubrâ. D. Oldeland.

* 183. *Cupressus Japonica* Arboris Vitæ foliis & facie. *Fim-noki* Japonensibus five Arbor ignea. From Dantzick.

* 184. *Cyperus Americanus* paniculâ parvâ rubente, sem. Lithospermii.

* 185. *Cyperus Funcoides* barbatus è Monte Serrado, capite globoso majori.

* 186. *Cyperus Funcoides* barbatus *Guineensis*, capite globoso minori.

* 187. *Cyperus Madraspatanus*, paniculâ speciosâ ramosissimâ.

* 188. *Cyperus Madraspat.* panic. speciosâ minor, glumis perminutis.

* 189. *Cyperus* è Monte Serrado, Ranunculi capitulo simplici.

* 190. *Cyperus Virginianus* Junci aq. paniculâ.

* 191. *Cyperus* facie Americ. barbulis hamatis.

* 192. *Cytisus* Cap. b. s. foliis pilis argenteis irroratis.

* 193. *Cytisi* facie Frutex Cap. b. s. foliis perforatis.

* 194. *Draba* fl. cœruleo. D. Oldeland.

* 195. *Dra-*

- * 195. *Dracocephalon Americanum*, *Lyfimachia campestris* folio, caule rotundo.
- * 196. *Dracocephalon Amer.* Oculi Christi folio, fl. minore.
- * 197. *Dracocephalon Amer.* Hyssopi folio, floribus alternis vel apposis.
- * 198. }
 * 199. } *Elichrysum Cap. b. s.* { ferrugineum.
 * 200. } Lavendulæ fol. lanuginoso.
 * 201. } Lychnid. Coronariæ folio, capitulis squarrosis.
- * 202. *Enulæ Campanæ affinis*, flore luteo. D. Oldel.
- * 203. *Erica fl. variegato tricolori.* D. Oldeland.
- * 204. *Erica fl. rubro.* D. Oldeland.
- * 205. *Erica Cap. b. s. Cerinthes* flore staminofo.
- * 206. *Erica tenuifolia Cap. b. s.* floribus exiguis carnis densè spicatis.
- * 207. *Erysimum fl. cœruleo staminulis croceis* D. Old.
- * 208. *Eupatoroides Cap. b. s. Satureiæ* foliis rigidis.
- * 209. *Eupatoroides Cap. b. s.* foliis rigidis teretibus contortis.
- * 210. *Eupatoroides Cap. b. s. spicata*, foliis rigidis.
- * 211. *Ficus folio digitato lobato, ex insula Coos.* From Coos.
- * 212. *Filicula Palmenfis* pinnis parvis subtus omnino villosis.
- * 213. *Filicula Palm.* pinnis spiniferis integris & undatis.
- * 214. *Filix Cap. b. s. marginibus aciniferis.*
- * 215. *Filix Dactyloides perelegans*, è Monte Serado.
- * 216. *Filix Pyramidalis elegans Insul. S. Johannis*, pinnulis angustis ferratis.
- * 217. *Filix scandens Nummulariæ* folio è Monte Serado.
- * 218. *Frutex spicatus Prunifolius Virginianus.*
- * 219. *Fucus Fœniculaceus fuscus*, ex Insul. Cyprus.
- * 220. *Fungus Calyciformis pediculo nigro*, è Monte Serado.
- * 221. *Genista fl. croceo lutescenti.* D. Oldeland.
- * 222. *Genista fl. luteo.* D. Oldeland.
- * 223. *Genista floribus minimis luteis.* D. Oldeland.
- * 224. *Genista Cap. b. s. Laricis* folio floribus comosis.
- * 225. *Genista Gadenfis* lutea, spinis spinulis armata. At Cales.
- * 226. *Gnaphalium Aloncum* capitulis valde lanatis. At Alicant.
- * 227. *Gnaphalium floribus argenteis.* D. Oldeland.
- * 228. *Gnaphalium Plantaginis* folio *Virginianum.* White Plantain, i. e. *Plantago candida* nostratibus vulgò *Alm. Botan.* From Virginia; named Indian Plantain.
- * 229. *Gnaphalium Cap. b. s. flosculis albis rigidis.*
- * 230. *Gnaphalium teretifolium.* From the Cape.
- * 231. *Gnaphalium tomentosum fl. luteo.* D. Oldeland.
- * 232. *Gramen Cyperoides polystachion*, spicis ad nodos ex utriculis seu foliorum alis echinatis prodeuntibus. Cat. Plant. Jam. 36. From Dr. Sloan.
- * 233. *Gramen asperum Cap. b. s.*
- * 234. *Gramen Amoris Amer. polystachion & ramosissimum*, foliis parvis quasi aculeatis.
- * 235. *Gramen Amoris Virgin.* paniculâ purpurascente. Mr. James Marshall brought me this from Virginia.
- * 236. *Gramen Juncum è Monte Serado Eryngii* capitulis.
- * 237. *Gramen Lagopoides Palmense.*
- * 238. *Gramen Lagopoides Guineense* spicâ longâ nutante.
- * 239. *Gramen pratense majus Virginianum.*
- * 240. *Gramen Secalinâ spicâ annuum.* I gathered this in spike, Sept. 9. 97. at Enfield.
- * 241. *Helleborine Angolensis* foliis Allii Urfini.
- * 242. *Helleborine Amer. Arundinaceo* folio, floribus flavescens maculatis.
- * 243. *Helenoides arbor foliis Teucriti crassis & rigidis.* Grows in St. Helena; named Balm-tree.
- * 244. *Helenoides arbor Verbasci nigri* folio, subtus lanuginoso. Found with the last.
- * 245. *Holosteum parvum Norwegicum.* From Norway.
- * 246. *Jacea lutea major*, seminibus *Crupinæ Belgarum.* Oxf.
- * 247. *Jacea Amer. Graminis* folio, monanthos, squamis foliaceis.
- * 248. *Jacea Amer. Graminis* folio, floribus alternis spicatis.
- * 249. *Jasmini flore*, planta foliis Sedi majoris. Called at the Cape Trumpet-Flowers.
- * 250. *Ilicis foliis exiguis Frutex Orientalis.* This elegant shrub from the Bombay side of India.
- * 251. *Iris Amer. cœrulea Graminis* folio.
- * 252. *Knawel Limonoides Canariense* Portulacæ aq. folio.
- A. * 253. *Lactuca aquatica tenuifolia* segmentis bifidis. Found in a ditch near Deptford dock.
- * 254. *Lagopus Americanus* floribus majoribus comosis.
- * 255. }
 * 256. } *Laserpitium Amer.* { Fraxini folio.
 * 257. } Hyperici folio.
 * 258. } Chærophylli folio.
- * 258. *Laurus Alexandrina Palmenfis*, baccis è crenis foliorum prodeuntibus. An elegant plant.
- * 259. *Laurus tinus Madraspatanus trifolius.* Gathered on Saint Thomas Mount, near Fort Saint George.
- * 260. *Laurus tinus Palmenfis* folio latissimo villosio.
- * 261. *Lycium Cap. b. s.* foliis Visci minoribus.
- * 262. *Lichen arboreus Amer.* scutellis magnis donatus.
- * 263. *Lichen arb. Insul. S. Johannis* marginibus pilosis.
- * 264. *Lilac Cap. Bonæ Spei* Fraxini foliis.
- * 265. *Lychnis Gadenfis* parva hirsuta. At Cales.
- * 266. *Lychnis Hispanica Kali* folio multiflora *El. Bot.*

* 267. *Lychnis viscosa aizoides fl. minimo è Rhodes.* Du Bois raised this (from seed I gave him) at Mitcham. Flowered from August till October, 1697.

* 268. *Lyfimachia fl. luteo tubo longissimo* D. Oldeland.

* 269. *Melo Persica* fructu odorato ex luteo & croceo eleganter striato. This beautiful Melon was raised at Enfield.

A. * 270. *Millefolium aquaticum rubens folliculaceum fluitans.* This odd plant lately discovered in a pond near Henly, Suffolk.

* 271. *Millepora arenosa Anglica.* Found at Deal.

* 272. *Mocan Palmenfis*, Frutex Arbuti folio.

* 273. *Muscus Americanus aureus* folio Cupressi.

A. * 274. *Muscus marinus capillaris rubens non ramosus.* At Braintree, Essex.

* 275. *Muscus Islandicus ruber pennatus, foliis mirè ferratis.* Found in the stomach of a cod-fish in Iceland.

* 276. *Nasturtium testiculatum ex Insula S. Helenæ.*

* 277. *Oleandri folio lucido, Frutex è Cap. b. s.*

* 278. *Orchis Amer. petalis* florum eleganter ferratis.

* 279. *Orchis Amer. calcari longissimo, Polygonati* folio.

* 280. *Orchis flore singulari herbaceo.* D. Oldeland.

* 281. *Orchis referens effigiem Nudi Hominis, Coriandri* odore. D. Oldeland.

* 282. *Ornithogalo affinis radice rubicundissima floribus aureis.* D. Oldeland.

* 283. *Pentaflora è Cap. b. s. foliis Myrti minoris.*

* 284. *Phaeolus Angolensis* foliis lobatis.

* 285. *Phaeolus Amer. lobis* spiniferis.

* 286. *Phaeolus Amer. Apios Cornuti* folio fl. singulari.

* 287. *Phaeolus è Cap. b. s. monanthos, Loti* facie.

* 288. *Phaeolus foliis parvis floribus comosis è Cap. b. s.*

* 289. *Plantaginis spicâ planta Amer. foliis ferratis* externè lobatis.

* 290. *Sedum Cap. b. s. Serpylli* folio hirsuto floribus albis comosis.

* 291. *Scorodonia floribus spicatis purpurascens pentapetaloides, unico femine majori echinato.* Cat. Pl. Jam. 66. Spanish-Town in Jamaica.

292. *Tagetes Scabiosæ tenuifolii villosis foliis è Cap.*

293. } *Amer. fl. globoso Pishaminis* folio.

294. } *Valerianoides* { Linariæ folio, fl. cœruleo è Cap.

295. } foliis Abrotani tridentinis è Cap.

296. } Calaminthæ folio è Cap. b. s.

297. *Verbenaca Hyssopi* foliis parvis è Cap. b. s.

298. *Verbenaca Taxifolii* marginibus lanuginosis è Cap.

* 299. *Xeranthemum è Cap. b. s. Rorismarini* folio.

* 300. *Xeranthemum Sophiæ Chyrurgorum* foliis è Cap. Bonæ Spei.

CENTURIA QUARTA & QUINTA.

ENGLISH BUTTERFLIES.

A. 301. **P**apilio albus, venis nigris. The white Butterfly with black Veins. I once saw this in a garden.

A. 302. *Papilio albus medius, venis latis subtus nigricantibus.* The common white veined Butterfly. Common in fields from March to July.

A. 303. *Papilio albus minor.* The small white Butterfly.

A. 304. *Papilio Leucomelanus subtus viridescens marmoreus.* The greenish marbled Half-Mourner. The only one I have seen, Mr. Vernon caught in Cambridgeshire.

A. 305. *Papilio alba, subtus viridi colore marmoreata femina.* The white marbled female Butterfly.

A. 306. *Papilio albus, subtus viridi colore marmoreatus mas: seu maculis croceis ornatus.* The white marbled male Butterfly. Appear in April and May, not common.

A. 307. *Papilio oculis nigris, subtus marmoreus.* The black-eyed marble Butterfly. I caught this at Tunbridge.

A. 308. *Papilio pratensis oculatus aureus.* The golden meadow eyed Butterfly. Common in meadows before mowing.

A. 309. *Papilio pratensis oculatus fuscus.* The brown meadow eyed Butterfly. With the last in May and June.

A. 310. *Papilio aureo-fuscus minor oculatus, pupillis geminis.* The lesser double-eyed Butterfly. About hedges in August.

A. 311. *Papiliunculus aureus oculatus, in Ericetis frequens.* The small Heath-Butterfly. Common on heaths from May to autumn.

A. 312. *Papilio oculatus ex aureo & fusco marmoreatus.* The golden marbled Butterfly, with black Eyes. I have met with from May till August, not common.

A. 313. *Papilio medius omnino fuscus, plurimis oculis nigris in circulis luteis subtus ornatus.* The brown Eyed Butterfly with yellow Circles. August, in meadows near rivers.

A. 314. *Papilio Oculis Pavonis dictus.* The Peacock's Eye. Often appears early, and continues long; common in gardens and fields.

A. 315. *Papilio Testudinarius major.* The greater Tortoise-shell Butterfly. Lift. fig. 3. This generally settles on trees in spring and autumn; not common.

A. 316. *Papilio Testudinarius minor.* The lesser Tortoise-shell Butterfly. Lift. fig. 2. Summer.

A. 317. *Papilio minor aureus, ex nigro permaculatus.* The small golden black-spotted Meadow Butterfly. In meadows about August and September.

A. 318. *Papiliunculus cœruleus, ocellis plurimis subtus eleganter aspersis.* The little Blue Argus. About autumn on heaths.

A. 319. *Papilio minor* cœrulefcens, subtus friatus. I never saw this but with Mr. Ray, July 11, 1699. who gave it me.

A. 320. *Papilio Fritillarius* major, maculis subtus argenteis. The greater silver-spotted Fritillary. I have not yet seen this about London: Dr. Scampton sent it me from Leicestershire.

A. 321. *Papilio Fritillarius* major, lineis subtus argenteis. The greater silver-freaked Fritillary. I once found this in the physick-garden, Chelsea.

A. 322. *Papilio Fritillarius* maculatus præcox. The April Fritillary. In Hampstead and other woods, April.

A. 323. *Papilio Fritillarius* tessellatus serotinus. The May Fritillary. Found with the last, May.

A. 324. *Papilio Fritillarius* minor. Mr. Vernon's small Fritillary. In Cambridgeshire and Hornsey wood.

A. 325. *Papiliunculus* fuscus, punctis plurimis albicantibus. Our brown Marsh Fritillary. I first observed this, April 30, 1696, in a bog on Hampstead heath.

A. 326. *Papilio* eleganter variegatus agilis, *Bella Donna* dicta. The Painted Lady. Lift. fig. 6. Usually settles on banks and dry ground; not common.

A. 327. *Papilio* major nigrescens tricolor, circulo ferè sanguineo ornatus. The Admiral. Lift. fig. 4. Commonly in gardens, and sometimes in woods, in August and September.

A. 328. *Papilio* major caudatus, ex nigro & luteo variegatus. The Royal William. Hollar. Muscar. &c. Mr. Ray has seen it in the North of England, and in the royal garden at St. James's.

A. 329. *Papilionoides* pratensis minor viridis. Our green Meadow-Butterfly. In several meadows when the grass is high.

A. 330. *Papilionoides* virefcens, maculis quinque miniatis ornatus. Phalena prat. 1. Moffet's greenish Leopard with five scarlet Spots. Common in the same places.

TREES, SHRUBS, HERBS.

331. *Abrotanum* mas odoratissimum Fumariz folio, ab Emuy.

332. *Acacia Madraspatana* Buxi foliis, filiquis compressis.

333. *Acacia Madraspatana* spinosa, Abrus folio, Fructu Aceris. An H. Mal. vol. 6. Tab. 8. p. 15.?

334. *Acer Madraspat.* Celsi folio, alis feminiferis simplicibus.

335. *Adhatoda Madrasp.* major *Lupuli* capitulis.

336. *Adhatoda Madrasp.* *Nummulariz* minore folio e *Champacca*.

337. *Adhatoda Champacca* *Pneumonanthe* folio. Gathered at Manambade *Champacca*, a place about Fort St. George.

338. *Adhatoda Madrasp.* spicâ longâ foliaceâ, marginibus albis.

339. *Adhatode affinis* *Champaccæ*, *Chamedryos* folio, subtus villoso. These eight last from Fort St. George.

340. *Adiantum nigrum* Madrasp. *Geranii Robertiani* folio.

341. *Ægilops Javanica* capitulis pilosis Roseis.

342. *Alcea Brasiliensis* folio angustissimo ferrato.

343. *Alchimilla minima* pubescens. This rare plant fr. the Cape.

344. *Aline Madrasp.* fl. cœruleo.

345. *Anagallis* purp. Burse Pastoris foliis minoribus e *Cap. b. s.*

346. *Anomala Brasiliensis* fl. luteo capsulâ carinatâ.

347. *Anomala Brasl.* floribus parvis, ex alis foliorum, longo tenuissimoque pediculo affixis. These two last from Brasil.

348. *Apocynum Madrasp.* Arb. Camphoriferæ foliis, filiquis villosis.

349. *Arbor Champaccæ*, *Suberis* folio, fructu ligneo seminibus alatis referto.

350. *Arbor Hortensis Javanorum*, foliis *Visci* angustioribus aromaticis, floribus spicatis stamineis lutescentibus.

351. *Arbor Madrasp.* polyanthos, fl. pentapetalis membranaceis rigidis.

352. *Argentina Emuyaca* foliis ramosis, altius incis. From Emuy, a Chinese island.

353. *Aster* e *Cap. Bonæ Spei*, foliis confertim nascentibus, flore purpureo.

354. *Aster Marianus* Cnæori foliis, floribus saturatè purpureis. Maryland.

355. } *Aster Marian. persolatus*, floribus } minoribus spicatis.

356. } } majorib. pauciorib.

357. *Astragalus* Madrasp. *Tragacanthæ* foliis.

358. } *Baccifera Madrasp.* fol. } *Laurustini* lucidi.

359. } } lato subtus molli, fructu racemoso, coronato, piloso.

360. *Baccifera Madraspat.* calyculata *Caryophylli aromatici* folio.

361. *Baccifera* Madrasp. *Myrti Laureæ* foliis perforatis, sed vix conspicuis.

362. *Baccifera Madrasp.* parva *Reniformis*, Vincæ per vincæ folio subtus mollia. The five last from Fort St. George.

363. *Baccifera* Mariana, *Clemat. Daphnoid. minoris* folio.

364. *Calamintha Mariana Alexiaca*, summitatibus calycum lanosis.

365. *Calendula* fol. *Gramineo*. Gathered at the Cape.

366. *Capparis fabago* minor, e *Cap. b. s.* fl. albo.

367. *Centaurium Caryophyllodes* frutescens, *Hyperici* foliis. Cape.

368. *Centaurium humile album*, folio subrotundo. Cape.

369. *Centaurium minus*, verticillatis floribus, Madraspat.

370. *Centaurium minus*, rubrum, caule alato, Madraspat.

371. *Cerasus Madrasp.* foliis latis cuspidatis.

372. *Chamaepitys* fl. carneo fol. angustiore integro. Cape.

373. *Chrysanthemum Orientale* foliis crispis. Fort St. David.

374. *Cinaroides frutex*, fol. subrotundo, rigido, e *Monte Tabulari*.

375. *Citrus* Madrasp. floribus parvis, racemiferis, fructu Cassiamuniaris odore.

376. *Coccifera Madrasp.* calyce magno, *Staphyloendr. Afric.* folio.

377. *Coccifera Madrasp.* racemosa; *Urucu* folio molli flavescente.

378. *Coccifera Madrasp.* Nucis Vomice foliis longioribus.

379. *Colutea filiquosa Madrasp.* *Mimosa foliis*.

380. *Convolvuli* capsula, *Planta Madrasp.* fol. latissimo cordato subtus sericeo.

381. *Corallina alba* capillacæ, non geniculata, ramulis tenuissimis.

382. *Corallina capillacea* non geniculata *spermophoros*.

383. *Coralloides* ramosa, crustâ coccineâ obducta. Cape.

384. *Crotolaria Madrasp.* *Styracis* fol. sericeo ferrugineo, auriculis majoribus.

385. *Crotolaria Madrasp.* folio villoso, auriculis parvis, purpur.

386. *Cyperus Marianus Miliaceus*, paniculâ villosâ speciosissimâ.

387. *Cyperus Marianus*, glomerulis deorsum spectantibus. In Maryland.

388. } *Cytisus Marianus* { purp. erectus capsulâ membranacæ.

389. } { purp. supinus, capsulâ membranacæ.

390. } { floribus luteis dense congestis, pediculo nudo.

391. *Delphinii capsula*, Fruticulus e *Cap. Bonæ Spei*, folio angusto punctato.

392. *Dens Leonis* foliis dentatis & integris, e *Cap. b. s.*

393. *Dens Leonis* Enulæ folio e *Cap. b. s.*

394. *Dispermos* Madrasp. *Pneumonanthe* folio.

395. *Erica* Cap. B. S. capitulis villosis subluteis.

396. *Erica* Cap. b. s. staminulis atro-purpureis e capitul. albis villosis.

397. *Esula Mariana*, flore pentapetalo albo.

398. *Eupatorium Marianum Elichrysi Peruv.* folio.

399. *Euphrasia* Madrasp. *Plantaginis* facie. Fort St. George.

400. *Fegopyrum* Chinense *Bistortæ* folio.

401. *Fegopyrum Marianum* folio sagittato, caulibus & pediculis spiniferis.

402. *Filix Emuyaca pinnis* proliferis mirè ornatis.

403. *Filix Emuyaca pinnis* singulis integris & divisis, marginibus feminiferis.

404. *Filix Javanica pinnis* angustissimis subtus divisis.

405. *Fucus Dealesis* Pedicularis rubræ folio. From Deal.

406. *Fucus Dealesis* fistulosus, Laryngæ similis. Same.

407. *Gelselinum* Madrasp. *Colutæ* folio, filiq. compressis aduncis.

408. *Gelselinum* Madrasp. filiquâ tetragonâ contortâ, foliis cuspidatis. An H. Mal. v. 6. Tab. 26. p. 26.?

409. *Genista*, foliis tenuissimis, flore luteo majore. Cape.

410. *Geniste facie* Frutex, *Emuyacus*, flor. barbatis globosis.

411. *Gladiolus* flore minore purp. apicibus obsoletis. Cape.

412. *Gladioli* flore singulari *Planta Mariana*.

413. *Gladiolo Narbonensi* affinis *Mariana* planta floribus minoribus;

414. *Gladiolo* affinis, flore cœruleo odoratissimo. This fragrant Plant first flowered in Mr. Tarant's garden at Hoxton. Cape.

415. *Gramen* Marianum spicâ cristatâ multiplici.

416. *Gramen* spicâ cristatâ simplici duriusculâ. Cape.

417. *Guajava* fructu, *Arbor Madrasp.* foliis *Fagi* maximis.

418. *Hedysarum triphyllum* Marianum angustifolium.

419. *Hedysarum triphyllum* Marianum Trifolii Bituminosi facie. Both these from Maryland.

420. *Hedysarum triphyllum* scandens Marianum rotundifolium auriculatum.

421. *Herba Paridi* affinis *Mariana*, planta, floribus hexapetalis biformibus.

422. *Hexagono fructu* arbor Madrasp. Iacæ folio.

423. *Julifera* Madrasp. *Coryli* instar, Arbor folio latissimo subtus villoso. An H. Mal. v. 5. Tab. 22. p. 43.?

424. *Juncus* e *Cap. Bonæ Spei*, paniculis fuscis Juliformibus.

425. *Kadali* Emuyaca *Tuberariæ* angustiore folio.

426. *Kadali* Malaccensis *Cinnamomi* fol. subtus molli.

427. *Landonia argentea* foliis angustis incanis, ex *Insula Flores*. Mr. Landon brought this new Plant from Flores Isle.

428. *Lauri* fructu Arbor Madrasp. fol. Vincæ per Vincæ majoris.

429. *Lauri* folio minore Arbor, fructu nudo globofo, e Madrasp.

430. *Linaria Dracocephali* folio, e *Cap. b. s.*

431. *Lycium* Madrasp. *Celsi* folio.

432. *Mentastrium* Marianum *Alexiacum*, foliis incanis.

433. *Methonica* folio, *Planta Guineensis* floribus racemiferis. An H. Mal. v. 7. Tab. 53. p. 99.?

This very odd Plant Mr. Edward Barta lately sent me from Cape Coast in Guinea.

434. *Moly humile* e *Cap. b. s.* M. *Dioscoridi* simile.

435. *Muscus arboreus Norwegicus* Feniculacei longissimus non ramosus.

436. *Muscus* Ceranoides *Palmenfis* comis digitatis, *Orchili* dictus.

437. *Muscus* Coralloides *Tunbrigensis*, bracteolis nigerrimis. An M. Cornucopoides cristat. *Alpinus saxatilis* Boeck. Musf. Plant.

21. Tab. 8. fig. ? This I found on the rocks near Tunbridge.

438. *Muscus Filicinus* perelegans crispatus. Mr. Dandridge found this, 1699. by the side of a gutter, in a wood near Muscleshill, between Highgate and Hornsey.

439. *Olea* Madrasp. *Celsi* folio.

440. *Ornithogalum* e *Cap. b. s.* flore luteo.

441. *Ornithogalum* Marianum *Graminis* folio, flore minutissimo.

442. *Osmunda* Mariana *Dryopteris* folio.

443. *Pajomirioba* Madrasp. minor, filiquis sericeis.

444. *Palma Glandifera* Madrasp. *Chameriphes* folio.

445. *Papilionaceo* flore *Planta* spicata, e *Cap. b. s.* Taxi folio.

446. *Perexil Champaccensis* humilis, polycephalus albus, capillaceo folio.

447. *Perexil Champaccensis*, capitulis carneis, capillaceo folio.

448. *Periclymeni* flore Frutex Madrasp. Uviseræ Amer. minoris fol.

449. Peri-

449. *Periclymeni* flore spicato, rubro, tubuloso, *Lauri* folio rigido, Frutex à *Madraspat*.
 450. *Periplocæ* flore Frut. *Laurocerasti* folio tenuiori à *Madrasp*.
 451. *Phaseolodes* spicata *monospermos*, calyce Plantæ Verticillatæ, ex *Insula Flores*.
 452. *Phaseolus* *Marianus* *Cajan* facie, *Salviæ* fol.
 453. *Phaseolus* *Marianus* *scandens*, floribus comosis.
 454. Planta à *Cap. b. s.* foliis carinatis punctatis, fl. albo.
 455. Planta spicata, fl. albo tetrapetalo, *Rorismarini* fol. Cape.
 456. Planta à *Cap. b. s.* floribus dense conglomerat, foliis *Taxi* minoribus, apicibus spiniferis.
 457. Planta *Javanica* fol. laciniatis angulosis, alternatim positis.
 458. *Plantago* fortè *Hieracii* crispi fol. capitulis squammosis. From Gallipoli.
 459. *Polyanthos* ramosissima, capillaceo folio, flore minimo, Planta à *Cap. b. s.*
 460. } *Polygala Marian.* { ramosa fl. minimo spicato.
 461. } Galegæ fol. alba, dense spicata.
 462. } fl. rubris spicatis.
 463. *Polygonum* *Marianum*, *Lini Cathartici* facie.
 464. *Polypodium Malaccense*, fol. integris & lobatis permaculatis.
 465. *Pomifera* *Madrasp.* *Cassie fistulæ* fol. calyce tetrapetalo roseo.
 466. *Prunifera* *Madrasp.* fructu anguloso, fol. *Lauri* perforato.
 467. *Prunifera* trifoliata *Madrasp.* calyce majore integro.
 468. *Prunus* *Madrasp.* *Mali* folio, floribus spicatis.
 469. *Rapunculus* galeatus, *Arthemisæ* fol. à *Cap. b. s.*
 470. *Rapunculus* flore minimo croceo, à *Cap. b. s.*
 471. *Rapunculus Centauroides*, pentapetalus, *Marianus*.
 472. *Rapunculus Centauroides* decapetalus *Marianus* angustifol.
 473. *Rhamnus* *Carolinianus* *Balaustii* folio subtus sericeo. From Carolina.
 474. *Sanamunda* à *Cap. b. s.* Illicis folio subtus incano.
 475. *Sassafras* facie arbor *Javanica*, fol. trifido.
 476. *Siliquosus* *Madrasp.* Frutex *Glycyrrhizæ* foliis alternis.
 477. *Spartum* capitulis foliaceis proliferis, ex *Insula Flores*.
 478. *Spergula* à *Cap. b. s.* foliis *Portulacæ* minorib. stellatis.
 479. *Spongia* speciosa fibris tenuissimis à *Smyrna*.
 480. *Stellaria* aquatica *Madrasp.* foliis dense stipatis.
 481. *Tartou-raire* à *Cap. b. s.* fol. angustiore.
 482. *Terebinthus* *Madrasp.* *Visci* fol.
 483. *Tetragono* fructu Arbor *Madrasp.* fol. *Anacardii Orientalis*.
 484. *Tetragono* fructu Arbor *Madrasp.* *Cassie fistulæ* fol.
 485. *Thea* *Caroliniana* *Lauro cerasti* fol.
 486. *Thymelea* à *Cap. b. s.* *Sanamunda* 3 clus. angustiore fol.
 487. *Thymelea* à *Cap. b. s.* *Rorismarini* fol. angustiore, capite lanuginoso.
 488. *Thymelea* à *Cap. b. s.* *Rorismarini* folio latiore & brevior, capite lanuginoso.
 489. *Thymelea* à *Cap. b. s.* *Taxi* foliis angustioribus.
 490. *Thymelea* à *Cap. b. s.* *Myrti* minoris fol.
 491. *Vaccinia* *Mariana* *Balaustii* fol. flore ruberrimo.
 492. *Vaccinia* *Mariana* *Eryonimi* folio splendente.
 493. *Vaccinia* *Marian.* flore purpurecente staminofo.
 494. *Vaccinia* *Marian.* tubuloso fl. majore. From Maryland.
 495. *Vanillæ* facie filiquæ Frutex *Madrasp.* foliis cuspidatis.
 496. *Vasculifera viscosa* calyce majore, à *Cap. b. s.* Planta foliis *Leucanthei* villosis.
 497. *Verbenaca* *Taxi* foliis minoribus, flore speciosiore staminibus lanuginosis à *Cap. b. s.*
 498. *Um-ki Chinensis*. Frutex *Cynobati* fructu alato tinctorio, barbulis longioribus coronatis. The fruit is a famed ingredient used by the Chinese for dying scarlet.
 499. *Urtica* *Marian.* mitis, spica speciosa prætenue.
 500. *Xeranthemum* speciosum, à *Cap. b. s.* fl. albo maximo.

CENTURIA SEXTA & SEPTIMA.

Papiliones Exotici, FOREIGN BUTTERFLIES.

501. **P**apilio albus, apicibus nigris, subtus eleganter maculatus, à *Carthagera*. West-Indies.
 502. *Papilio Alpinus* ex albo nigroque variegatus, Iride rubente oculatus. From Norway and the Alps.
 503. *Papilio Lufitanicus* Sulphureus, croceo colore superfusus. About Lisbon and Leghorn.
 504. *Papilio Marianus* minor luteus, extremitatibus superne nigris. From Maryland.
 505. *Papilio Caudatus* luteus, maximus, *Virginianus*, limbis striisque nigris. P. diurnus maximus, maximam partem flavescens, reliquam pene nigricans. Hollar. Tab. 4. fig. 1. Mosser's great yellow and black Virginia Butterfly. From Boston in New-England, &c.
 506. *Papilio caudatus Chinenfis* nigro & luteo pallefcente variegatus. I take this and the next to be male and female.
 507. *Papilio caudatus Chinenfis* ex nigro & fulvo variegatus. These two from Emuy, China.
 508. *Papilio caudatus Marianus* fuscus, striis pallefcentibus, lineâ & maculis sanguineis subtus ornatus. From Maryland.
 509. *Papilio caudatus Jamaicensis* nigrescens, utrinque ex viridi aureo splendè striatus. Jamaica.
 510. *Papilio Javanicus*, superne fuscus, inferne aureus, areis & maculis albis utrinque circumdatus. From Batavia.
 511. *Papilio Guineensis* & *Ind. Orient.* nigrescens, oculatus, lituris ochroleucis, utrinque interspersis. Guinea-Hen-Butterfly. Indies and Guinea.

512. *Papilio seu Oculus Pavonis Marianus* fimbriâ lutescente marginatus. The Maryland yellow-brimmed Peacock's Eye.
 513. *Papilio Marianus*, utrinque fuscus, areâ pallefcente alis superioribus, bioculatus. The brown Maryland double-eyed Butterfly.
 514. *Papilio Prutenicus* fuscus, flexionibus maculisque albis & aureis, subtus diversis coloribus variegatus. The septennial Prussia Butterfly. From Prussia; appear but once in seven years.
 515. *Papilio Mexicanus* nigrescens, lineâ lutescente, areâ notabili miniceâ. This elegant Butterfly at La Vera Cruz.
 516. *Papilio minor* aureus, maculis nigris apicibus alarum transparentibus, e Capite Bonæ-Spei.
 517. *Papilio e Carthagera* ex luteo & viridi subtus ornatus, maculis plurimis nigris, 2 coccineis insigniter notatus. At Carthagera in America.
 518. *Papilio Javanicus Calendulaceus*, seu *Pap.* fuscus flavo mixtus, humeris subtus sanguineis. This rare Fly, from Batavia.
 519. *Papilio exoticus* aureus, maculis argenteis & nigris subtus eleganter aspersus.
 520. *Papilio Rigenfis* aureus minor, maculis argenteis subtus perbellè notatus. From Riga.
 521. *Papilio Marianus Fritillaricus* nigrescens, tribus coloribus subtus eleganter lunulatus. Maryland.
 522. *Papilio caudatus Marianus* maximus nigrescens maculis croceis, serie simplici subtus ornatus.
 523. *Papilio Novæ Angliæ caudatus*, major, nigrescens, maculis croceis subtus circumscriptis, basi ex cœruleo virescente resplendens. From Boston in New-England, and Carolina.
 524. *Papilio Marianus* nigrescens caudatus, maculis croceis duplici serie subtus incurvatus.
 525. *Papilio Novæ Angliæ* aurantiacus, maculis albis, limbis & venis angustis nigricantibus. Boston in New-England.
 526. *Papilio Marianus* aurantiacus, maculis albis, limbis & venis latis nigricantibus. This and the last are male and female.
 527. *Papilio Carolinianus* rufescens, limbis nigris, albis guttulis aspersis. This and the following from Carolina.
 528. *Papilio Carolinianus* rufescens, limbis nigris, albis guttulis aspersis, bimaculatus. This and the last are male and female.
 529. *Papilio Palmensis* rufescens, areis & maculis albis notatus. From Palma, one of the Canary Islands.
 530. *Papilio Mexicanus* alis superioribus nigrescens, inferioribus Aurantiacus, maculis ochroleucis & albis. From the same place with No. 515.

Spongia, Fungus, Musci, Filices, Gramina, Cyperi.

531. **S**pongia ramosissima Marilandica rufescens.
 532. *Fungus Typhoides* palustris niger *Rigenfis*. From Riga.
 533. *Muscus denticulatus Caledonicus* major perelegans, Filici in modum pinnatus. This elegant plant from Darien.
 534. *Muscus denticulatus* major volubilis, à *Capite Montis Serado*. Africa.
 535. *Muscus Lycopoides* denticulatus scandens, in extremitatibus ramulorum polyspermus, ex Jehore.
 536. *Muscus* denticulatus *Emuyacis* minor erectus. From Emuy, an island, China.
 537. *Filix* *Emuyaca Plantaginis* aq. folio caule nigricante.
 538. *Scolopendria* à *Cap. Bonæ-Spei Phyllitidis* minoris folio.
 539. *Scolopendria* *Malaccensis* foliis simplicibus & alatis.
 540. *Scolopendroides* maxima *Musæ* foliis alternis.
 541. *Phyllitis* *Emuyaca* major ramosa.
 542. *Filix* maxima *Polypodii* facie maculis feminiferis duplici serie lineatis.
 543. *Filix Malaccensis* pinnis longissimis integris, nervo medio pulverulento. An *Lonchitis* juxta nervum pulverulenta Plum. p. 20. fig. 29.
 544. *Filix Emuyaca* pinnis longissimis integris margine pulverulento.
 545. *Filix Emuyaca* pinnis majoribus denticulatis.
 546. *Filix* non ramosa elatior feminibus aciniferis.
 547. *Filix Emuyaca* pinnis pyramidalibus ferratis, maculis in nervum oppositis. This and the ten last from Ja. Cuninghame.
 548. *Filix Mariana* minor, foliis biformibus, marginibus pulverulentis.
 549. *Filix Emuyaca* scemina pinnulis *Lonchitidis*.
 550. *Filix Emuyaca* scemina pinnulis angustioribus subtus glaucis.
 551. *Filix* bimaculata, pinnulis dentatis. Cape.
 552. *Filix* fortè *Caledonica* *Peucedani* foliis, vix dentatis. Darien.
 553. *Filix Caledonica*, pinnis alæ *Pisium* æmulantibus.
 554. *Filix Chinenfis* *Lonchitidis* facie, cujus lanugo Radicis *Poco Sempie* vocatur. *Kim-kaw-ia* (i. e. Canis aurei crines) Herb. nost. Chinenf. pict. Tab. 10. fig. 8. *Poco sempie* Mus. R. Soc. 386.
 555. *Lonchitis* maxima *Oleandri* folio.
 556. *Osmunda* *Mariana* *Dryopterid* folio, in medio caulis florifera.
 557. *Secale* *Madraspat.* majus spicâ graciliore.
 558. *Gramen* *Secalinum* *Marilandicum* spicâ laxiore aristatâ.
 559. *Gramen* *Madraspat.* majus, cujus locustæ spinulis eleganter armatæ sunt. An *Tsjama-pullu* H. Mal. vol. 12. Tab. 41. p. 75.
 560. *Panicum* *Madraspat.* perelegans feminibus perlatis.
 561. *Panicum Marianum* aristatum, spicâ longâ multiplici congestâ.
 562. *Panicum* *Madraspat.* rariore grano & spicâ.
 563. *Milium* *Madraspat.* spicâ simplici prætenue.
 564. *Milium* *Madraspat.* aristatum, foliis & panicula villosis.
 565. *Milium* *Madraspat.* paniculâ non aristatâ læve.

566. *Milium Marianum* locustis *Avenaceis* purpureis, staminibus luteis. From Maryland.
567. *Sesamum Frumentaceum Madraspat.* spicâ simplici cirrosâ.
568. *Sesamum Frument. Madraspat.* ramosum, spicâ simplici *Phanicoideis*.
569. *Sesamum granulosum majus Madraspat.* spicâ multiplici.
570. *Sesamum granulosum bicornis minus, Madraspatanum.* An *Terebinthi* H. Mal. vol. 12. Tab. 44. p. 81.?
571. *Dactylon Madraspat.* pumilum, spicis geminis crassis.
572. *Dactylon Borneocum bicornis*, spicâ sericeâ ferrugineâ aristatum. From Borneo.
573. *Dactylon Madraspat. Gr. Mannæ facie*, feminibus Ciliis infatis pilosis.
574. *Schœnanthus major Madraspat.* glumis Roseis.
575. *Schœnanthus Madraspat.* paniculâ majore, spicis villosis geminis. An *Kodi-pulla* H. Mal. vol. 12. Tab. 57. p. 107.?
576. *Schœnanthus Madraspat.* paniculâ minore, spicis villosis geminis. An *Pluk. Phyt.* Tab. 119. fig. 2.?
577. *Schœnanthus Avenaceus procumbens Madraspat.* Bupleuri facie.
578. *Amourettes Guineensis major*, paniculâ speciosiore. Mr. Edw. Bartar gathered about Cape-Coast in Guinea.
579. *Amourettes Madraspat.* spicâ simplici Loliaceâ. This curious Grass from Fort St. George.
580. *Arundo Mariana* plumâ sericeâ fuscâ.
581. *Gramen Arundinaceum Marilandicum* paniculâ Miliaceâ sparsâ.
582. *Bromos Mariana* spicâ pretenui non ramosa. Maryland.
583. *Bromos Madraspat.* spicâ contractiore aristatâ.
584. *Eglops capitulis duris* spicâ longiore. *Gramen five Festuca altera cap. duris* spicâ longiore. Physick garden at Chelsea.
585. *Gramen Madraspatanum minus, Eryngii capitulis.*
586. *Gramen Citratum* fragrantissimum, è *Madraspatan.*
587. *Cyperus paniculâ maximâ squamosâ, è Prom. montis Serado.* An *Ira* H. Mal. vol. 12. Tab. 55. p. 103.?
588. *Cyperus Marianus* paniculâ speciosissimâ aureâ.
589. *Cyperus longus Madraspat.* paniculâ rufescente speciosissimâ.
590. } *Cyperus Madraspat.* maximus, } latiore.
591. } paniculâ cristatâ } contractiore.
592. } *Cyperus Filicinus* } sparsâ, è *Madraspatan.*
593. } medius, paniculâ } comosâ, è *Madraspat.* An *Mulenpullu* H. Mal. vol. 12. Tab. 54. p. 101.?
594. *Cyperus Filicinus* pumilus elegans ab *Emuy.*
595. *Cyperus Marianus* capitulis Conoidibus, squammis membranaceis.
596. *Cyperus Miliaceus Madraspat.* maximus, folio supra paniculam latissimo.
597. } *Cyperus Madraspat.* } pumilus capite squammoso.
598. } } minimus *Xanthoides*.
599. *Juncus Madraspat.* seré tricephalus, squammis tortilibus dentatis.
600. *Juncus Madraspat. Equiseti* capitulis major.

Plantæ Miscellaneæ, Ordine Alphabetico digestæ.

601. *A* *Cacia Bengalenfis Bonduch* folio, filiquis dorso nervosis. Bengal, and Fort St. George.
602. *Agrifolium Marianum* fol. latoribus brevioribusque.
603. *Alectorolophus Marianus* fol. tantum ferratis, fl. albedo.
604. *Alypum* è *Promont. Bonæ Spei* foliis minimis. Cape.
605. *Ambrosia affinis* è *Madraspatan.* *Persicariæ* folio.
606. *Anagallis Mariana* lutea, foliis latis stellatis.
607. *Antirrhinum Marianum Majorane* folio.
608. *Apocynum Marian.* luteum latifol. subincanum.
609. *Apocynum Marianum* foliis angustissimis stellatis. Raii H. Pl. 1926.
610. *Arbor Salawaccensis Laurifolio*, fructu filo longo terminante, flore ex utriculo quasi erumpente. Fort St. George.
611. *Aster Africanus* pumilus longifolius cœruleus.
612. *Aster Marianus* flor. parvis spicatis, angustissimo fol.
613. *Astragalus Salawaccensis* foliis & filiquis glabris.
614. } *Baccharis Marian.* } Dipfaci minoris folio.
615. } } Inguinalis folio.
616. } } Persicæ folio.
617. *Baccifera Caroliniana* capreolata *Pisi cordati* folio. An *Quauhmetatl, seu Sarsaparilla* 2. Hernand. p. 289. ? At Hoxton.
618. *Baccifera Madraspat. Castanæ* folio non crenato. F. St. G.
619. *Baccifera Madraspat.* Reniformis major, Cassiæ fistulæ minoris folio.
620. *Baccifera dispermos Madraspat.* lanosa, folio pyramidal.
621. *Baccifera Madraspat. Ribis more*, floribus Muscosis Juli infar. An *Tsjeriam cottam* H. Mal. vol. 5. Tab. 11. fig. 21. Raii H. Pl. 1106.?
622. *Battatas* flore, Frutex *Marianus Lauri* folio. Maryland.
623. *Berberidis facie*, Arbor *Madraspat.* fol. non ferrat. An *Tsjerou-Cenelli* H. Mal. vol. 5. T. 50. p. 99. Raii H. Pl. 1499.?
624. *Buglossum polyanthos Chienfæ* fol. longiore. From Scio.
624. *Capparis Madraspatan. Balaustii* folio.
625. *Capparis Zeylanica* duplicatis spinis folio acuto. Zeylon.
626. *Capparis facie* Pl. *Madraspat.* fruct. & spinis gemellis.
627. *Celastris* folio glauco Arbor, è *Prom. Bonæ Spei.* Lepel-hout vulgò.
628. *Chrysanthemum Madraspat.* fol. trifido.
629. *Chrysanthemum Marianum Scrophulariæ* folio, caule alato. From Maryland, where they call it Stickweed.

630. *Clematis Marian.* foliis subrotundis & trifidis.
631. *Coccifera Madraspat. Caparadis facie* spinosa, fructu Umbellæ modo nascente.
632. *Coccifera Buxi* foliis oblongis & subrotundis, fructu cuspidato calyce amplo, è *Madraspatan.*
633. *Collumettee*, Planta *Madraspatana*, floribus labiatis ad radicem conglomeratis. At Fort St. George.
634. *Convolvuli* capsula Frutex *Madraspat.* Ulmi min. fol.
635. *Crista Pavonis* auriculata non spinosa filiquis Membrana-cis è *Madraspatan.*
636. *Erica* floribus albidis, staminibus rubris. Cape.
637. *Erica* carnea foliis & floribus villosis. Cape.
638. *Esula Mariana* flore singulari, longo pediculo affixo.
639. *Euphrasia Madraspat. Melochiæ* fol. flor. verticillatis.
640. *Fagara Emuyaca Cardamomi* sapore, ramulis & medio nervo foliorum utrinque spinosis. Seems to agree with the *Fagara* minor, from the Philippine islands, where it is called Cayutana.
641. *Fagus Mariana* foliis acuminatis ferratis.
642. *Ficoides Africana* folio crasso muricato. This strange plant in a garden at Enfield.
643. } Flos folis *Marianus* foliis } binis angustissimis scabris.
644. } } alternis angustissimis scabris.
645. *Fœnum Græcum majus*, è *Salawacka.*
646. *Geranium Africanum* Quinquifolii *Tormentillæ* facie. May 9. 1697. bishop's garden at Fulham.
647. *Gnaphalium odoratum Prom. b. s.* floribus exiguis albis capitulo congestis.
648. *Hedysarum trifoliatum Madraspatanum* Lujulæ folio, *Ferri Equini* filiquis.
649. *Hedysarum trifol.* *Madraspat.* filiquis membranaceis asperis. This and the last from Fort St. George.
650. *Hermannia* Institut. Rei Herbariæ. H. flore exiguo lutescente, tortili, calyce inflato. This elegant plant flowered luxuriantly in the garden of Mr. Watt at Enfield.
651. *Imperatoria Ranunculoides* minor, è *Prom. Bonæ Spei.*
652. *Laurustinus Oleæ* fol. Slangerhout vulgò. Cape.
653. *Lens palustris Roris Solis* foliis cordatis. Ponds at Henley in Suffolk.
654. *Ledum* glabrum, foliis subtus intortis & lanugine ferrugineâ vestitis. This elegant shrub found in flower, June 24, 1699, in Newfoundland.
655. *Lino affinis polycarpus Marian.* Satureiæ foliis.
656. *Lotodendron Madraspatan.* fol. longiore pubescente.
657. *Lychnis Indica Gentianæ* foliis Febrifuga. *Giritilla Zeylonensis*.
658. *Malva frutescens Prom. Bonæ Spei* flore carneo fundo purpureo. In flower, Enfield gardens.
659. *Mango sylvestris Madraspat.* fructu *Cerasi.*
660. *Meiampyro affinis Madraspat.* repens hirsuta, capf. spin.
661. *Nucleifera Salawaccensis* Pisiiformis *Yuccæ* folio.
662. *Oreoides epidendron Salawaccensis* Visci folio.
663. *Padus Marianus Manchinelæ* fol. flor. minoribus.
664. *Padus Marianus Cynocrambes* fol. flor. majoribus.
665. *Palma Angolensis Rottang* fol. fructu Gallæ magnitudine.
666. *Panel Madraspatana* folio angustissimo mucronato, fructu majore. An *Narum Panel* H. Mal. vol. 2. Tab. 10. p. 11. Raii H. Pl. 1639.?
667. *Periploca Mariana* *Convolvuli* majoris folio.
668. *Planta Mariana* capitulis albis conglobatis.
669. *Plantago Lustanica* caulescens, *Lagopi* capitulis. Plants from Lisbon.
670. *Plantago Mariana* spicâ pretenui.
671. *Prassium Madraspatan.* folio latissimo. An *Tsjadaen* H. Mal. vol. 10. Tab. 88. p. 175.?
672. *Prunus racemosa Celastris* fol. *Weralu Zeylonensis*.
673. *Pulegium Carolinianum* Thymi odore. Garden, Hoxton.
674. *Pulegium longissimis latissimisque* foliis. Cat. Plant. Jam. 64. At Barbadoes.
675. *Pyrola Marylandica* minor, folio mucronato *Arbuti.* This the Rev. Mr. Hugh Jones sent from Maryland.
676. *Rapunculus Doricæ* folio piloso ex *Insula Joannis.*
677. *Rapunculus Linariæ* folio, denticellis paucis & vix conspicuis, ex *Insula Joannis.*
678. *Rhus trifoliata facie* Frutex *Salawaccensis*, flor. Julifor-mibus.
679. *Santalum rubrum* quibusdam, *Arbor Orientalis Ponnæ facie.* An *Tsjerou-Ponna* H. M. vol. 4. T. 39. p. 81. Raii H. Pl. 1537.?
680. *Senecio Madraspatana Rapifolio*, floribus maximis, cujus *Radix* à nonnullis *China* dicitur.
681. *Tamariscus Madraspatanus* Cupressi facie. An *Tamarix Egyptia* arbor C. B. 485.?
682. *Tamarisci* folio arbor *Chinensis*, è cujus *Ligno* fiunt *Sagittæ.* Hofe Diu Herbar. Nostr. Chinens. pict. Tab. 9. fig. 4.
683. *Taxi* fructu arbor *Madraspatana* Laurifol.
684. *Telephium Portulacæ* folio *Prom. Bonæ Spei.*
685. *Tetragono* fructu *Turbith* folio arbor magna, è *Monte Tri-petee.*
686. *Thymelea Taxifolio* latiore apice obtuso. Cape.
687. *Tilia Mariana* foliis lobatis spiniferis.
688. *Toddali Madraspatan.* foliis leviter crenatis subtus argenteis. An *Mallam Toddali* H. Mal. vol. 4. Tab. 40. p. 83. Raii H. Pl. 1597.?
689. *Toddali spinosus Madraspat.* medio nervo ex altera parte folii percurrente.

690. *Tricapularis* Fructus, è capite *Functi utriculati* facie planta. Cape.
 691. *Triorchis Mariana* elatior utrinque florida.
 692. *Vaccinia Africana* foliis decussatis cordi formibus. This elegant plant from the Cape.
 693. *Vaccinia Mariana Staphyloendri Africani* folio.
 694. *Verbenaca Mariana Rosæ Chinenfis* folio, feminibus deorsum tendentibus. In Maryland.
 695. *Viburnum Marianum Ribis* folio.
 696. *Vitis Madraspat.* fructu azureo fol. subrotundo & anguloso.
 697. *Wagâ Madraspatana Senæ* foliis, filiquâ latâ compressâ ubi feminibus inflatâ. An *Waga* H. Mal. vol. 6. T. 5. p. 9. Raii H. M. 1766.
 698. *Waga Madraspatana Mimosa* foliis pinnatis, filiquis maximis compressis.
 699. *Waga Madraspatana Mimosa* foliis, floribus parvis spicatis.
 700. *Waga Madraspatana spinosa Mimosa* foliis, floribus parvis spicatis.

CENTURIA OCTAVA.

Animalia & Fossilia, Anglica & Exotica.

- A. 701. *Araneus Anglicus* coccineus minimus. Exiguus coccineus vulgò *Anglicè a Tant* dictus. List. Hist. Animal. Angl. 100. fig. 38. In gardens, &c.
 702. *Araneus Indicus* coccineus major. Viziagapatan.
 A. 703. *Buccinulum Anglicum* heterostrophon oblongum, striis capillaceis. *Buccinum* exiguum, pullum, 12 orbium List. Hist. Conchyl. Lib. 1. fig. 39. List. Hist. Angl. 123. fig. 10. At the bottom of old trees. Mus. nostr. 16.
 704. *Buccinulum Romanum* heterostrophon oblongum gyris maculatis. Rome. These twirl-lists are speckled with white, in which it differs from the last.
 705. *Buccinum album* minus, costis eleganter elatis. An *Cochlea variegata*, striis raris admodum eminentibus exasperata List. H. C. l. 4. f. 5. fig. 51.
 706. *Cantharus Benghalensis* è viridi cupreus, binis maculis medio vaginarum pallescentibus. Bengal.
 707. *Cantharus Madraspatan.* vaginis et pedibus rubris, cæteris viridibus, scapulâ instar *Digitalis* punctatâ. Its shell wings are scarlet, but the shoulders green, and pounced like a thimble. From Fort St. George.
 708. *Capricornus Americanus* perelegans vaginis albis, ex aureo nigrisque pulchrè striatis. From Campeachy.
 709. *Capricornus Barbadosensis* major, viridis odoratus. Like our musk-beetle, but larger. At Barbadoes they are plentiful, and called the Mastick-Fly.
 710. *Concha Veneris parva*, Hepatici coloris, ventre albo. It is about the bigness of a Lucca (Luke) Olive.
 711. *Concha Veneris Maldiveica*, parva, alba, trifasciata. *Parva*, candida, tribus latissimis fasciis nigricantibus depicta List. H. C. l. 4. f. 9. fig. 10. *Concha Veneris minor* ex albo cœrulefcens. Batavia.
 712. *Concha Veneris Orientalis* fusca, dorso maculato, apicibus carneis. *parva*, ventre & lateribus flavescens, ipso linguæ canali laviter purpurascens, dorso maculato, flavis & innumeris puncturis candido List. H. C. l. 4. f. 9. fig. 38. Tipped at each end with a faint purple. Batavia.
 713. *Concha Veneris Mauritiana*, minor sessilis, costis castaneis dorso maculato. *Craspa* ventre lato rimâ albidâ, lateribus nigricantibus, dorso fummo albis maculis depicto List. H. C. l. 4. f. 9. fig. 50. From Fort St. George and Batavia.
 A. 714. *Libella Anglica media*, fluviatilis omnino viridis. By rivers sides about Midsummer. The wings are greenish, without clouds.
 A. 715. *Libella Anglica media*, fluviatilis, viridis, alis nebulosis. Very common by brooks sides from June to Autumn.
 A. 716. *Nerita Anglicus maritimus* flavescens vulgatissimus. *Nerita citrinus* List. H. C. l. 4. f. 6. fig. 39. *Nerita* XI. List. H. A. A. 164. fig. 11. This and the next differ only in colour, and are common together.
 A. 717. *Nerita Anglicus maritimus* fuscus vulgaris. *Nerita* XI. List. H. A. A. 164. fig. 11. *Nerita* coloris castanei List. H. C. l. 4. f. 6. fig. 39. Common on our coasts, amongst rocks.
 A. 718. *Nerita Thamensis* exiguus reticulatè variegatus. *Nerita* fluviatilis è cœruleo virescens, maculatus operculo subrufo lunato & aculeato datus List. H. A. A. 136. fig. 20. *Nerita* fluviatilis è cœruleo virescens, maculatus operculo subcroceo aculeatoque donatus List. H. C. l. 2. par. 1. fig. 38. This small shell is elegantly spotted. I have found them on the river-bank opposite Chelsea college.
 719. *Papilio Madraspatanus* fuscus, lituris cœruleis corrufcans. From Fort. St. George.
 720. *Papilio Orientalis* fuscus, umbrâ cœrulefcens albâ basi circumscripta. Differs from the last in having its white spots larger, and the blue cast less vivid.
 721. *Papilio Madrasp.* croceus, nigris maculis aspersis albisq; seriè marginatus. Vary in bigness, perhaps from their sex. About Fort St. George, in November.
 722. *Papilio Carolinicus* caudatus nigredine & ochroleuco variegatus. This elegant fly caught in March and April. Ashly river, S. Carolina.
 723. *Papilio Orientalis*, è pallido virescens, striis nigris, eleganter lineatis. This curious Butterfly from the East-Indies.

724. *Papilio Lusitanicus* caudatus pallidus, striis fuscis elongatis. Hollar. tab. 8. fig. 1. Frequent about Lisbon.

A. 725. *Patella Anglica* parva prætenuis Cymbuli-formis, lineis cœruleis guttatis. *Patella minima* lævis pellucida aliquot cœruleis lineis eleganter insignita List. H. C. l. 4. f. 1. fig. 27. About Falmouth.

726. *Patella Michowaica* Cymbæ formis maxima. *Patella magna* fulva lateribus paululum compressis densè & leviter striata List. H. C. l. 4. f. 1. fig. 25. In East-Indies, and at the Cape.

727. *Pectunculus albus Guineensis* major, costis elatis striatis. List. H. C. l. 3. fig. opt. 164. The Fistular Oyster. Cape Coast.

728. *Pectunculus* an fossilis? minor, *Muscoviticus*, costis elatis & ferè lunulis muricatis. Found in the river Dohn, between Warronitz and Azoff.

729. *Phalena plumata permagna Orientalis* oculata. This noble *Phalena* was first sent me from Jacobus Breynius at Dantzick: it was nine inches between the tips of each wing. I have since received it from the East-Indies.

730. *Phalena plumata permagna Guineensis* oculis binis majoribus. This and the next off the coast of Guinea.

731. *Phalena plumata major Guineensis*, fusca, oculatâ, alis inferioribus acuminatis.

732. *Phalena plumata major*, supernè & infernè variis coloribus marmoreatis & maculatis. Carolina.

733. *Phalena plumata caudata Mariana*, virescens, oculata. This elegant Moth from Maryland.

A. 734. *Plan-orbis terrestris Anglicus*, umbilico minore, margine acuta. *Cochlea* pulla silvatica spiris in aciem depressis List. A. A. 126. fig. 14. *Cochlea* nostras umbilicata pulla List. H. C. l. 1. p. 29. fig. 68. I have found it in the hedges between Charlton and Woolwich.

A. 735. *Plan-orbis fossilis Surriensis*, umbilico majore, margine acuta. *Verticillus* fossilis minor seu *Trochites* compressus umbilicatus Luid. Lithoph. Brit. 416. An *Trochites* Mus. Sibbald. 65. In a clay-pit near the wells at Richmond. Larger than the last, otherwise like it.

736. *Unicornu Brasiliense*, orbibus fulcatis striis fuscis. List. H. C. l. 4. f. 5. fig. 60. An inch and three quarters long, with about ten twirls. From Brasil.

A. 737. *Unicornu Cantianum* fossile, fasciis muricatis. An *Turbinites* Mus. Sibbald. 65. Gravel-pits near Woolwich.

738. *Unicornu Batavicum*, sex striis, singulis orbibus ornatum. *Cochlea* alba densè & acutè striata List. H. C. l. 4. f. 5. fig. 54. About eighteen twirls, in each of which are six ribs. Batavia.

739. *Unicornu fossile Cantianum* orbibus compressis asperis. This comes nearest the figure of *Luid* in his Lithoph. Brit. tab. 7. No. 359. Found with No. 737. but more rare.

740. *Unicornu Moluccanum*, gyris planis, maculis fuscis duplici seriè ornatum. *Buccinum* dentatum, clavicula longissima, læve, binis fasciis ex maculis quadratis magnis ex fusco rufescentibus depictum List. H. C. l. 4. f. XI. fig. opt. 70. On Flores Isle.

Arbores, Frutices, &c. TREES, SHRUBS, &c.

741. *Acrosticon Madraspatan.* foliis laciniatis.

A. 742. *Acrosticon parvum Septentrionale*. Ray H. Pl. 141. cap. 7. In Wales, on the rocks of Edinburgh park, from the physic-garden of that city, and from Norway.

743. *Adiantum pectinatum*. Cape.

744. *Alcea Caroliniana* fl. parvo saturatè purpureo. From Ch. Town, S. Carolina. It flowers and seeds in March and April.

745. *Alcea Madraspatan.* majus, fol. trilobato, calyce plumoso. This rare Plant, and the following, from Fort St. George.

746. *Alcea Madrasp.* Ranunc. Auricomi folio, calyce plumoso. I have seen this in flower at Enfield.

747. *Arbor Javanica* latifolia, pulchrè variegata. An *Tsjeriamaram* Hort. Malab. vol. 6. tab. 61. p. 113. Ray Hist. Plant. 1733. cap. 19. No. 2.

748. *Arbor Javanica* folio angustiore variegato. This and the last from Batavia.

749. *Armeniaca* fol. acuminato. Physick-garden at Oxford.

750. *Botrys Mexiocana* odoratissima. *Botrys Americana* Raii H. Plant. 196. No. 4.

751. *Botrys odoratissima* lignosa. This differs from the last in being a shrub and woody. I saw it this summer at Enfield.

752. *Camambaya Caroliniana* cinerea. *Viscum caryophylloides* tenuissimum, è ramulis arborum Musci in modum dependens, foliis pruinæ instar candicantibus, flore tripetalo, semine filamentofo. Cat. Plant. Jam. 77. This grows on most great trees in Carolina. Dr. Sloan observed it common in Jamaica.

753. *Camarinna Lusitanica* erecta. *Frutex Lusitanicus Camarinna* dictus. Ray H. Pl. 1630. c. 4. pl. 1. About Lisbon.

754. *Camarinna Septentrionalis* supina. *Empetrum montanum* fructu nigro Raii H. Pl. 1631. c. 4. pl. 2. From Norway. Found in moist mountainous heaths in the North of England.

755. *Capillaris Barbadosensis*, pinnulis quadratis. *Adiantum nigrum* minus non ramosum, pinnulis majoribus crassis Trapezii in modum figuratis. Cat. Plant. Jam. 21. From Barbadoes.

756. *Capillaris Jamaicensis* elatius, pinnis triangularibus. *Adiantum* ramosum foliis Trapezii dentatis Plum. 31. tab. 46. *Adiantum nigrum* non ramosum majus, furculis raris, pinnulis densis, crassis, minimis, cristatis & Trapezii in modum figuratis Cat. Pl. Jam. 21. From Jamaica.

757. *Capillaris Chinenfis* pinnulis rotundioribus. Fern from China.

758. Cha-

758. *Chamaezyce major hirsuta Indica utriusque*. *Chamaezyce Americana major*, floribus glomeratis Cynocrambes folio hirsuta Breyn. Prodr. 3. p. 31. *Tithymalus botryoides Ceylanicus* repens cauliculis villosis. From Guinea, Fort St. George, and China. See its virtues in Dr. Trapham's State of Health in the Island of Jamaica, pag. 138.

759. *Chamaezyce Guineensis lignosa, Replos fol.* About C. Coast.
760. Coral arbor exotica non spinosa, Lauri folio. *Crista di Gallo* Lusit. In flower, from a garden at Lisbon.

761. *Darea Tunbridgeensis minor. Mascus montanus Italicus* Adianthi foliis Bocc. Musc. Plant. 24. tab. 2. Vid. Rai. Hist. Plant. append. 1583. descript. This elegant Plant from the rocks near Tunbridge-Wells.

762. *Darea Americana major pubescens. Filicula digitata* Plumier Inst. Rei Herb. 542. Like the last, but bigger and hoary. This and the next in America, by Plumier.

763. *Darea Americana Lichenoides. Adiantum muscorum Lichenis petræ facie* Plum. p. 34. fig. 50. *Phyllitis scandens minima*, Musci facie, fol. membranaceis subrotundis Cat. Pl. Jam. 15.

764. *Digitalis exotica floribus albis amplissimis.* This elegant Plant in flower, Sept. 26, 1700. Garden at Fulham.

765. *Erica e Cap. Bonæ Spei hirsuta, flaminulis purpureis e capitulis albis lanosis.* The leaves hairy, otherwise like No. 396. Musci nost. Dr. W. Sherrard gave it me. Cape Heath.

766. *Erica Capensis umbellata aspera. Erica Africana umbellata flore purpureo* Aët. Medic. Hafniens vol. 2. p. 57. fig. *Erica Africana Juniperi folia flore oblongo umbellato* Instit. R. H. 603. *Erica Coris folio hispido Cerinthoides Africana* Breyn. Cent. 25. cap. 13. fig. opt. At the Cape.

767. *Filicula Madraspatana foliolis furcatis ex apice prolifera.* This altogether new Fern about Fort St. George.

768. *Filix scandens Malaccensis mirè ludens.* This elegant Fern in the Straits of Malacca.

769. *Fraxinus Mannifera rotundiore folio.* Chelsea.

770. *Fraxinus folio angustiore, spinulis ferratis.* From Lisbon.

771. *Galbanifera vulgaris e Capite Bonæ Spei.*

772. *Galbanifera e Capite Bonæ Spei, segmentis tenuioribus.* An undescribed Cape Plant.

773. *Gale Mariana Asplenii folio.* Chelsea.

774. *Gale Capensis, Illicis coccigeræ folio.* In fruit; smells very pleasantly whilst growing, and much coveted by the birds. Grows on the sand-hills about the Cape.

775. *Heliotropium Barbadiense Lavandulæ folio lanuginoso.* Cat. Pl. Jam. 93. Plenty at Jamaica and Barbadoes. Sea-Lavender.

776. *Heliotropium Madraspat. Myosotidis folio.* Fort St. George.

A. 777. *Juniperus Alpina humilis, Sabinæ odore. Juniperus Alpina minor* Ger. Ray H. Pl. 1413. No. 4. On the hills in Wales and Westmorland they call it Savin.

778. *Juniperus Bermudenfis ligno rubente odorato* Park. 1029. 4. *Cedrus Americana* Ray H. Pl. 1413. 5. Cedar Park. 1671. The Cedar of Bermudas.

779. *Kadali Madraspat. major, folio latissimo hirsuto.* An Katou-Kadali H. Mal. v. 4. tab. 43. p. 91.

780. *Kadali Madraspat. minor capsulis pilosis. Caunampoondoo* Malab. Aët. Phil. No. p. 592. pl. 42. An Therou-Kadali H. Mal. v. 4. tab. 44. p. 93.

781. *Knawel Madraspat. argenteum.*

781. *Knawel Madraspat. aureum. Pulandee* Malab. Aët. Phil. No. p. 589. pl. 33. An Katu-Mailosina H. Mal. vol. 10. tab. 66. p. 131. Differs from the last in having its flowering-tufts yellowish.

782. *Lauro-Cerasus vulgaris Hortensium. Laurocerasus* Clus. Hist. 4. fig. Pann. 2. fig. Common. The Laurel.

783. *Lauro-Cerasus Lusitanicus minor speciosus. Laurocerasus Lusitanicus minor. Afarero Lusitanis.* From Lisbon.

784. *Lewisanus Capensis, foliis Capillaceis.* This new genus from the Cape.

785. *Lewisanus Capensis Juniperi Bermudiani folio. Cupressopinnulus* Cap. Bonæ Spei Breyn.

786. *Matricaria Madraspat. flore pleno flavescente. Matricaria flore aureo pleno Cameli* Mss. fig. Ugcayuy Sinis. Rosa de Japon Hispan. in Luzone. An Tsjetji-pu H. Mal. v. 10. tab. 44. p. 91. Vary much in the colour of the flowers, and esteemed by the Chinese and Japonese as a great ornament in their gardens.

787. *Nummularia Norwegica repens, fol. dentato, floribus geminis.* From Norway.

788. *Onobrychis Indica Orientalis, Fagi foliis alternis, filiculis spicâ longâ dispositis.*

789. *Onobrychis Madraspat. triphylla, filiculis clypeatis villosis, geniculis singulis binisve.*

790. *Onobrychis Madraspatana. triphylla, filiculis eleganter foliaceis.*

791. *Osmunda Virginiana Cicutæ folio. Adiantum album floridum Cicutæ foliis Virginianum* Ray H. Pl. 1854. 7. From Maryland and Carolina.

A. 792. *Osmunda Westmorlandica foliis tenuissimè dissectis. Adiantum album floridum seu Filicula petræa crispa* Ray H. Pl. 153. 3. *alb. florid.* S. F. petræa crispa perelegans Ray Synopf. 26. ed. 2. p. 51. 10. *Filix montana florida perelegans seu Adiantum album floridum* Ray Cat. Angl. *Filix botryitis minima five Filicula petræa florida Anglica, foliis plurifariis divisis* H. Ox. f. 14. p. 593. tab. 4. fig. 4. First observed in England by that patron of botany Mr. Ray, in Orton parish, and other places of Westmorland; and since that, on Snowdon hill in North-Wales, by Mr. Edw. Lloyd.

793. *Perexil Malabaric. Parietaria folio. Scherubula* H. Mal. vol. 10. tab. 29. p. 57. *Herniaria Species Camel.* in H. Mal. v. 10. p. 57. Fl. Mal. 139. pl. 4. id. fol.

794. *Polypodium Malabaricum foliis biformibus. Polypodium Indicum* H. Malab. v. 12. tab. 11. p. 23. Herb. nost. Chinesf. tab. 9. fig. 13. At Mount Serado in Africa, and Java. From Fort St. George. It is also found on several trees in Malabar.

795. *Polypodium e Trinidad, foliis valde pilosis.*

796. *Randalia Madraspat. Graminis folio globulifer.* At Fort St. George.

797. *Tubularia sanguinea, Tub. purpurea* Ray H. H. 64. pl. 7. The red fistular Alcyonium Musc. Regal. Soc. 279. Musc. Sibbald. 53. Coral gathered in the East-Indies.

A. 798. *Tubularia fossilis.* Found in the stone-pits at Orford in Suffolk.

799. *Uvedalia spinosa. Chrysanthemum Africanum, frutescens spinosum.* This plant being of a new genus, viz. a Bacciferous Chrysanthemum, the first time I saw it in flower was with the Rev. Dr. Uvedale at Enfield. I distinguish this tribe by his name.

800. *Uvedalia Virginiana-Platani folio molli. Chrysanthemum perenne majus Platani Orientalis folio* H. Ox. f. 6. p. 22, 57. tab. 7. fig. An *Doronicum maximum Americanum* latissimis angulosis foliis rad. transparenti H. A. Lugd. Bat. 222.?

COLLECTIONS since my 4th and 5th Centuries.

MR. James Braylsford, a Turkey merchant, presented me with Four Books of Plants, which he gathered about Jerusalem, the mountains of Bilan, the banks of Euphrates and Jordan: And to each plant he procured its Name, in Arabick, French, and Latin, from the physicians of those parts.

Mr. Jezreel Jones has rendered me the meaning of several Arabick characters.

Mr. Edmund Bohun, and Mr. R. Ellis, I am obliged to for a Collection of Plants in S. Carolina, last March and April; and several rare Insects and Reptiles.

Mr. J. Dickinson, Plants from Bermudas.

Mr. J. Fox, Four Books of Plants from Bengal, with some Insects, Shells, &c.

Mr. G. Franklyn, some Plants about Charles Town, Carolina. Capt. Edmund Halley gave me what Plants he collected on the island Trinidad.

Dr. Godfried Klem, one of the Czar's physicians, sent me a Collection of Plants gathered about Moscow, with some Animals, &c. which he observed in a voyage between that city and Azoff; also some curious Shells from Persia.

Mr. Keir and Mr. Barklay, surgeons, presented me with some Plants they collected in China.

Mr. John Staremborg, Plants from the Cape, some very curious and altogether new, gathered near 800 miles up the country.

CENTURIA NONA & DECIMA.

ANIMALS and FOSSILS.

A. 801. **A**uris marina *Anglica nobis.* Lister Animal. Angliæ Hist. p. 167. fig. 16. A. m. nostras Musc. Sibbald. 130. art. 2. List. Hist. Conchyl. lib. 4. sect. 7. tab. 611. fig. 2. *Patella altera major Bellon.* aquatil. 395. fig. The SEA-EAR, Mother of Pearl, and by some Norman Shell. These are found on our coasts, but not common.

A. 802. *Balanus Anatifera* Musc. Sibb. 170. 2. C. A. margine laevi List. H. C. 2, 3. tab. 440. fig. 283. Flat Centre-Shell Musc. Reg. Soc. 148. BARNACLE-Shell. On ships from the East-Indies.

A. 803. *Balanus maximus ore patulo* List. H. C. 1. 3. tab. 443. fig. 285. On the sides of foul ships.

A. 804. *Balanus noster parvus vulgaris* List. A. A. 196. fig. 41. opt. B. parvus striatus List. H. C. 1. 3. tab. 444. fig. 287. Commonly grow on other shells, as Oysters, Mussels, &c.

A. 805. *Buccinum fluviatile nostras oblongum majus. Buccinum longum sex spirarum omnium & maximum & productius subflavum, pellucidum, in tenue acumen ex amplissima basi mucronatum* List. A. A. 137. fig. 21. List. H. C. 1. 2. tab. 123. fig. 21. In most standing ponds about London.

A. 806. *Buccinum fluviatile nostras oblongum minus. Buccinum minus fuscum, sex spirarum, ore angustiore* List. H. C. 139. fig. 22. This differs from the last in being less, its mouth narrower, and shell thicker.

A. 807. *Buccinum fluviat. nostras breve, ore patulo. Buccinum pellucidum subflavum quatuor spirarum mucrone acutissimo, testæ aperturâ omnium maximâ* List. A. A. 139. fig. 23. B. *subflavum pellucidum quatuor orbium ore amplissimo, mucrone acuto* List. H. C. 1. 2. tab. 123. fig. 22. In the New-River.

A. 808. *Buccinum fluviat. nostras, testâ prætenui fragili. Buccinum subflavum pellucidum trium spirarum* List. A. A. 140. fig. 24. B. *subflavum pellucidum trium orbium* List. H. C. 1. 3. tab. 123. fig. 23. Bonan. 119. fig. 54. 1. id. Ital. I observe this thin brittle shell in slow running rivers, among the reeds and bulrushes.

A. 809. *Buccinum marinum nostras, costis fasciatis & striatis. B. crassum rufescens striatum & undatum* List. A. A. 156. fig. 2. B. *brevirostrum tenuiter striatum pluribus undatis sinibus distinctum* List. H. C. 1. 4. sect. 15. tab. 962. fig. 14. Musc. Sibb. 150. art. 2. 1. On our coasts.

A. 810. *Chama lata & compressa nostras. Chama fusca lata planior* List. H. C. 1. 3. tab. 415. fig. 259. *Concha longa lataque in mediis cardinibus cavitate quadam Pyriformi insignita* List. A. A. 170. fig. 19. Found on the shores of Lancashire and Yorkshire.

A. 811. *Chama nostras* striis capillaceis. *Chama* fusca striis tenuissimis donata List. H. C. 1. 3. tab. 423. fig. 271. CLAMS, and by some PURRS. I observed these on the shores near Maldon in Essex. From Lisbon and St. Ube's.

812. *Chama Indica* utriusque striata, extremitatibus intus ferè violaceis. An *Chama diffusor*, intus violacea striata ex purpura radiata List. H. C. 1. 3. tab. 425. fig. 273. From Pulo Verara, an island in the Straits of Malacca, and the West-Indies.

A. 813. *Cochlea maritima nostras* crassa, fasciata. *Cochlea* fusca, fasciis crebris angulisque prædita List. A. A. p. 162. Found about Scarborough, called COVINS.

A. 814. *Cochlea fluviatilis* vivipara *Londonensis*. *Cochlea maxima* fusca five nigricans fasciata List. A. A. 133. fig. 18. *C. vivipara* fasciata List. H. C. 1. 2. tab. 126. fig. 26. In the Thames, and at the New-river head.

A. 815. *Cochlea fluviatilis* vivipara *Cantabrigiensis*. *Cochlea vivipera* altera nostras testâ tenuiori, Fluvii *Cham.* List. H. C. Mantiff. tab. 1055. fig. 6. Resembles the last, but thinner and neater.

A. 816. *Glycymeris Cornubiensis* crassa marmorata. An *Pectunculus* ingens variegatus ex rufo List. H. C. 1. 3. tab. 247. fig. 82. The Multi-articulate Oyster. Mus. Reg. Soc. 144. tab. 12. fig. 5. From Falmouth.

A. 817. *Libella maxima* nemorum, pulchrè variegata. An Hollar. tab. 6. fig. 5. I observed this beautiful Adderbolt in Cane wood.

A. 818. *Libella major* corpore compresso cœrulescente. This and the next are often seen about ponds, July, &c.

A. 819. *Libella major* corpore compresso flavescente. I take this and the last to be male and female.

A. 820. *Musculus maritimus* vulgarissimus edulis. M. ex cœruleo niger List. A. A. 182. fig. 28. List. H. C. 1. 3. tab. 362. fig. 200. The common SEA-MUSCLE.

821. *Musca Americana* vulgaris. *Buccinum Muscum* crassum claviculâ muricatâ List. H. C. 1. 4. sect. 11. tab. 805. fig. 14. This beautiful Shell is common on the shores of Jamaica, &c.

A. 822. *Ostrea* vulg. efculenta. O. vulg. max. intus argenteo quodam splendore albescens List. A. A. 176. fig. 26. List. H. C. 1. 3. tab. 193. 4. fig. 30 & 31. The common OYSTER.

A. 823. *Ostrea perlata*, capite foraminoso List. H. C. 1. 3. tab. 205. fig. 39. The Perforated PEARL-OYSTER. On our own and neighbouring coasts.

824. *Ostrea Americana* arborea fulcata List. H. C. 1. 3. tab. 197. 8. fig. 32. American TREE-OYSTER. These vary in shape according to the twigs they grow on. Common in Barbadoes, &c.

A. 825. *Papilio albus* vulgaris major List. in Goed. p. 16. fig. 7. The Greater White Cabbage-Butterfly. This and the next produce caterpillars which feed on the cabbage.

A. 826. *Papilio albus* vulgaris minor List. p. 22. fig. 8. id. A. p. 12. tab. 1. fig. 8. Hollar. tab. 11. fig. 2. id. Wit. tab. 1. fig. 1. The Lesser White Cabbage-Butterfly. This and the last are common in the fields and gardens in summer.

A. 827. *Patella vulgaris Anglica*. P. ex livido cinerea striata List. A. A. 195. fig. 40. Frequent on our coasts.

828. *Patella Capensis* striis verrucosis. P. subfusca exiguis tuberculis secundum strias exasperata List. H. C. 1. 4. sect. 1. tab. 536. fig. 15. From the Cape.

A. 829. *Pecten major nostras* vulgaris. P. maximus circiter 14 striis admodum crassis & eminentibus, & iisdem ipsis striatis insignitus List. A. A. 184. fig. opt. 29. List. H. C. 1. 3. tab. 163. fig. 1. About Portland.

A. 830. *Pecten minor nostras*, striis plurimis minoribus. An *Pecten* List. H. C. 1. 3. tab. 181. fig. 18. At Deal.

A. 831. *Pectunculus fluviatilis nostras* Nuciformis. P. subviridis parvus subglobosus List. H. C. 1. 2. tab. 159. fig. opt. 14. List. A. A. 150. fig. 31. In the rivulet between Lord Peterborough's and the Neathouses; and by the Thames at low-water.

A. 832. *Pectunculus maximus* crassus nostras nigricans. P. maximus subfuscus valde gravis List. H. C. 1. 3. tab. 272. fig. 108. H. C. 1. 3. tab. 269. fig. 105. In Lancashire and Yorkshire, and in the mouth of the river Tees.

A. 833. *Pectunculus maximus* crassus, lavis, ferè radiatus. An P. gravis subfuscus radiatus List. H. C. 1. 3. tab. 268. fig. 104. A very fair one from the island of Purbeck; also from Cornwall.

A. 834. *Pectunculus max.* fossilis *Richmondianus* List. H. C. tab. 512. fig. 66. At Richmond in Surry, near the wells.

A. 835. *Pectunculus marit.* List. A. A. 189. fig. 34. P. capite minore rotundiore & magis æquali margine List. H. C. 1. 3. tab. 334. fig. 171. The common COCKLE.

836. *Pectunculus Guineensis* ex uno latere altè incisus. An P. orbicularis ex altero latere prælongis latisque dentibus conspicuis List. H. C. 1. 3. tab. 330. fig. 167. This is deeply indented on one side with a reddish blush, otherwise it resembles the last. From Cape-coast in Guinea.

837. *Pectunculus Jamaicensis* striis ferè muricatis. P. tenuis modo ruber, modo citrinus, striis nunc ex parte, nunc ex toto muricatis List. H. C. 1. 3. tab. 322. fig. 159. From Jamaica and Carolina.

838. *Pectunculus Carolinianus* maximus. P. magnus maculatus intus leviter rufescens List. H. C. 1. 3. tab. 328. fig. 165. Dr. M. Lister gave me this from Carolina. Like our common Cockle, but is near as big as an ostrich's egg.

839. *Pectunculus lunatus Amer.* albus, crassus, sulcâ singulari notatus. P. albus admodum crassus sinu five sulcâ conspicuus

List. H. C. 1. 3. tab. 305. fig. 138. This is common to Jamaica, &c.

840. *Pectunculus Carolinianus* ovalis albus politus. An P. leviter aut certè admodum tenuiter striatus tenuis margine dentatâ flavescens & interdum purpurascens List. H. C. 1. 3. tab. 249. fig. 83. From Carolina and Jamaica.

A. 841. *Pectunculus minimus* lavis intus argenteus, cardine ferratâ GAZOPHYL. nost. NAT. & ART. Decad. 2. tab. 17. fig. 9. Little Silver-Cockle, on our own coasts.

842. *Pectunculus lunatus Virginianus* subrotundus ac valde compressus. An P. albidus dense fasciatus latissimus admodum planus List. H. C. 1. 3. tab. 288. fig. 124. From Virginia and Carolina.

843. *Siliquastrum Rigenfis* Limacis cinerei facie GAZ. nost. NATURÆ & ART. Dec. 2. tab. 17. fig. 3. This fossil from Riga.

A. 844. *Solen nostras* vulgaris. S. major subfuscus rectus List. H. C. 1. 3. tab. 409. fig. 255. Concha fusca longissima angustissimaque musculo ad cardinem nigro; quibusdam *Solen* dicta List. A. A. 192. fig. 37. The SHEATH-FISH, Mus. Reg. Soc. 143. or RAZOR-FISH, Charlt. Pisc. 67. SPOUT-FISH, Mus. Sibb. 167. In Cornwall, Calega. Found in winter, after storms.

845. *Trochus Barbadosis* magnus, ex albo nigroque undatus. T. maximus lavis & nigro maculatus List. H. C. 1. 4. f. 8. tab. 640. fig. 30. From Jamaica and the Bahama Islands.

A. 846. *Trochus maritimus nostras* orbibus elatis. An T. planior undatim ex rubro radiatus List. H. C. 1. 4. f. 8. tab. 641. fig. 32. Near as big as our Garden-Snail, Mus. nost. 13. Its navel large and screwed, and lower twirls somewhat knobbed.

A. 847. *Trochus Anglicus* spiralis. T. pyramidalis variegatus, limbo angusto in summo quoque orbe circumdatus List. H. C. 1. 4. f. 8. tab. 616. fig. 1. List. A. A. p. 166. fig. 14.

A. 848. *Trochus Anglicus* spiralis minor. An T. pyramidalis parvus ruberrimus, fasciis crebris exasperatus List. H. C. 1. 4. f. 8. tab. 616. fig. 2. Much less than the last, has a small navel, with about five distinct twirls.

A. 849. *Trochus nostras* lineis latis obliquè rubentibus. List. H. C. 1. 4. f. 8. tab. 641. fig. 31. This pretty umbilicated Shell is about the bigness of a hazel-nut, on our shores.

A. 850. *Trochus nostras* lineis angustis obliquè rufescentibus. An T. crebris striis fasciis & transversè & undatim dispositis donatus List. A. A. 166. fig. 15. The spots and lines in this are much smaller, brownish, and finer than the last; and scarcer.

Plantæ Miscellaneæ, ordine alphabetico.

851. *A* Dhatoda *Malaccensis* flore rubro, Parietariæ folio non-nihil ferrato.

852. *Adhatoda* à *Promont.* *Tricuspidato* folio majore, floribus verticilli modo dense stipatis. This and the following at Cape Tres Puntas, near Cape-coast, Guinea.

853. *Adhatoda Prom.* *Tricuspidat.* folio angustiore, floribus paucioribus.

854. *Adhatoda Suratenfis* Lauri folio spicata, flore barbato.

855. *Adiantum pumilum*, segmentis angustioribus rigidis, S. *Heleneæ*.

856. *Alga Capensis* denticulis capillaceis, vesiculis lyratis.

857. *Amelanchier Chusanensis* folio parvo subrotundo rigido. From Chusan, an island near China.

858. *Androface Chusanens.* Cortusæ *Matthioli* folio.

859. *Angola Chusan.* Pruni folio, calice amplo.

860. *Anonymus Chusan.* floribus spicatis, petalis tribus angustis.

861. *Apios ex Insulis Crocodilorum* folio latiori brevi. In the three Crocodile Isles, lying in 26 deg. lat. and about six leagues from the river Hocksieu in China.

862. *Aphyllanthes Capensis* spicâ singulari.

863. *Arbor Capensis*, folio digitato, flore spicato.

864. *Arbor Chusan.* Lauro-cerasi folio ferrato.

865. *Arbor Chusan.* Lauri folio ferrato subtus molli, virgulis verrucosis.

866. *Arbor Lauri* folio crasso coriaceo rigido, ex *Combuys* Insula. Island near Java, Jun. 19, 1701.

867. *Arbor Emuyaca*, flore minimo stamineo albente, Illicis fol.

868. *Arbor Javanica*, fructu Chamei.

869. *Arbor Malaccensis*, Castanei foliis.

870. *Arbor Zeylanica*, FORTUNATA quibusdam dicta.

871. *Arum Widense* Sagittariæ facie, pediculis ferè spinosis. Gathered at Wida in Guinea, by Mr. Skeen, surgeon.

872. *Arundo capitulis acerosis* à *Capite Bonæ Spei*.

873. *Arundo Phalaroides*, à *Cap. Bonæ Spei*.

874. *Afarum* flore minimo, ex *Insula S. Helenæ*.

875. *Aster Chusan.* foliis superioribus integris, inferioribus Coronopi.

876. } *Baccifera Chusan.* } racemifera, Loti arboris folio.

877. } racemosa, Arbuti folio.

878. } Theæ folio.

879. *Baccifera Crocodyl.* Celastris folio.

880. *Baccifera Emuyaca* dispermos scandens *Flamulæ* facie.

881. *Bartarius* seu *Arbor Guineensis* floribus Periclymeni comofis. This beautiful Tree from Cape-coast.

882. *Bocras Malaccensis*, Arbor Urucu fol. Nuce astringente.

883. *Boisow Javanensis*, Arbor Pruniformis, fructu lactefcente.

884. } *Bulbosæ* facie planta *Widenfis* } Galangæ folio.

885. } *Yuccæ* folio latiore.

886. *Calamintha Chinenf.* Teucrii folio, flore staminofo.

887. *Camphorosmos Chusan.* flore piloso.

888. *Carambu Emuyac*. Perficariae foliis hirsutis.
 889. *Carambu Widenf.* Perficariae foliis glabris.
 890. *Caucalis Capensis* Fumariae folio glauco. I have seen it in the garden of the Dukes of Beaufort, at Badmington.
 891. *Cerasus Chusan.* floribus minoribus plenis.
 892. *Chamaerhododendron Chusan.* fl. albo, Myrti Roman. fol.
 893. *Chamaerhododendron Chusan.* flore caeruleo, foliis & calycibus hirtis.
 894. *Chamaesyce forte* lignosa, foliis dense stipatis, & *Cap.*
 895. *Christophoriana forte* Emuyaca, spinosa, Mori folio molli.
 896. *Chufanicus seu Planta capreolata* Arb. Judae folio, flore spicato.
 897. *Clematis Chusan.* folio cordato umbilicato.
 898. *Coccifera Crocodil.* Pimenta Jamaicensis folio.
 899. *Cocculus Reniformis* scandens Emuyacus, Cotini folio subtus molli.
 900. *Conophorus Capensis* folio angusto summo dentato.
 901. *Convolvulus Carolinianus*, flore minore sanguineo. Flowered plentifully in a garden at Hoxton.
 902. *Conyza Chusan.* pilosa, folio Sonchi integro.
 903. *Crotolaria Prom. Tricuspid.* Cupang folio subtus molli.
 904. *Cynoglossum Chusan.* summo late ramoso.
 905. *Cytisus Crocodil.* foliis parvis subtus villosis.
 906. *Dentellariae fructu Arbor Madraspat.* spinosa.
 907. *Dracontii folio* pediculis nervisque spinosis, Planta Malac.
 908. *Duriones facie Arbor Benghalensis.*
 909. } *Chinens.* Glycyrrhizae folio.
 910. } *Euonymus* } forte Chusan. Berberidis folio.
 911. } *Crocodil.* Lauro-cerasi folio.
 912. } *Emuyacus* Pervincæ majoris folio, baccæ solitari, vasculo bipartito vel tripartito inclusâ.
 913. *Eupatorium Crocodilian.* Leonuri folio.
 914. *Fagara Madraspat.* foliis Aurantiis ternis.
 915. *Fagi foliis* minoribus Planta scandens Caroliniana.
 916. *Ficus Chusanensis*, Mori folio.
 917. *Ficus Chusan.* minima nigrescens fol. integro, superne scabro, subtus molli. It bears fruit in September.
 918. *Ficus forte Chusan.* folio vulg. facie sed molliori.
 919. *Ficus Malaccensis* fol. oblongo integro, subtus albicante.
 920. *Ficus forte Prom. Tricuspidat.* folio oblongo magno crenato.
 921. *Ficus forte Prom. Tricuspidat.* folio acuminato serrato, basi latiore.
 922. *Ficus forte Prom. Tricuspid.* folio trifido.
 923. *Ficus Widenf.* folio lato cuspidato, margine transparenti.
 924. *Ficus Widenf.* folio nonnihil crenato, subtus pulchre venoso.
 925. *Frutex Crocodil.* foliis alatis subrotundis glaucis subtus albidis.
 926. *Frutex Crocodil.* Fagi foliis parvis venis subtus purpureis.
 927. *Fucus latissimus membranaceus carneus*, & *Cap. b. 6.*
 928. *Gambogium fundens arbor*, Fagi folio permaximo subtus holosericeo.
 929. *Geranium Capense*, Hederae angulose folio. This singular and beautiful Cape-Plant I saw in the Dukes of Beaufort's garden at Badmington, near Bath.
 930. *Hai-hoa Chinensis* flore albo, siliquis gummosis articulatis.
 931. *Ham-shaw Chinens.* Arbor flore albo, calyce hirsuto.
 932. *Jacea Caroliniana*, Salicis folio crenato.
 933. *Jacea Carolin.* Salicis folio non crenato capitulis pilosis. These two elegant Plants from Goose-creek in Carolina.
 934. *Jacobæa Capensis* Cardui folio subtus albicante. An *Jacobæa Africana* Sonchi folio Oldenl. Institut. Rei Herbar. 487. 3. This I gathered in flower, amongst many other uncommon sorts of Ragwort, in the Dfs. of Beaufort's garden at Badmington.
 935. *Jacobæa Chusan.* folio lato.
 936. *Jubæa folio* minore, planta repens Chinensis.
 937. *La boe Chinens.* Arbor flore luteo, foliis acutis binis decussatis.
 938. *Lactuca Emuyaca* perfoliata, Sonchi folio.
 939. *Lauro-cerasi folio* suffrutex scandens Malaccensis. Lactescens.
 940. *Lauri folio* rigido alato Arbor Malaccensis.
 941. *Lauri folio* maximo Arbor Prom. Tricuspid. floribus filamentosis spicatis.
 942. *Lauri folio* Arbor Pr. Tricuspid. apice verruculis dentato.
 943. *Lotus arbor Emuyaca*, Betulae folio.
 944. *Lupulus Chusan.* minor, Rubi folio.
 945. *Mandiocæ facie* Arbor Pr. Tricuspid. foliis subtus lanuginosis.
 946. *Melilotus Capensis*, flore speciosiore.
 947. *Nicotianæ folio* angusto lanuginoso Frutex, Pr. Tricuspid.
 948. *Oxyacanthus Chusan.* Pyracanthæ folio.

949. *Patsjotti Pr. Tricuspid.* floribus minoribus. This is very like the Katou-Patsjotti Hort. Malab. vol. 5. tab. 7. p. 13. & S. B. vol. 3. 98 & 136. Act. Phil. No. 271. p. 845.
 950. *Perficaria Chinenf.* folio subtus albedo.
 951. *Periclymeni flore* Frutex Emuyac. Pervincæ majoris folio.
 952. *Periclymeni flore* Frutex Suratenfis, Perficariae folio subtus albente.
 953. *Phaseolus Chusan.* siliqua hirta folio angustissimo.
 954. *Phaseolus Chusan.* siliqua hirta folio latiore.
 955. *Phaseolus Guineenf.* fol. subrotundo, Lentis siliqua.
 956. *Phyllitis Chusan.* ramosa, pinnis alternis basi superiore auriculatis.
 957. *Pimenta Chusan.* Buxi folio, floribus filamentosis.
 958. *Pimenta Chusan.* Melissæ folio, flore petalofo.
 959. *Planta Caroliniana* scandens, Fagi folio minore pulchre venoso. This pretty climber at the Dfs. of Beaufort's, Badmington.
 960. *Planta Guineenf.* Polygonati folio cuspidato dense stipato.
 961. *Plantaginis aquaticæ facie* Planta Widenf. foliis alternis.
 962. *Pruni sylv. facie* Frutex Emuyacus, spinis fetè foliosis.
 963. *Pyracanthæ folio* frutex, floribus spicatis muscosis.
 964. *Quinquefolium Chusan.* folio subtus iacauo albo.
 965. *Ricinus Chinenf.* Sebiferæ, Populi nigrae folio.
 966. *Ricinus Emuyac.* Verbasci folio, fructu farinaceo.
 967. *Ricophora Javanica* trifoliata, Malabathri folio.
 968. *Ros folis Chusan.* perelegans, caule foliofo.
 969. *Rosa forte Chusan.* Trichomanis folio.
 970. *Rubia facie* Planta Crocodil. cordato folio.
 971. *Ruyfchiana, Echii flore* Planta Capensis Carthami folio, Aparines fructu. This strange Cape Plant Dr. Fred. Ruyfch sent me from Amsterdam.
 972. *Samolus Emuyac.* Rorismarini folio.
 973. *Samolus Guineenf.* floribus racemosis, foliis capillaceis interpersis.
 974. *Scandens Emuyaca*, capreolata planta, foliis cordatis serratis.
 975. *Serratula Chusan.* folio hastato.
 976. *Serratula Chusan.* folio subtus incano albo.
 977. *Siliquisera Chusan.* Fraxini folio, fructu holosericeo.
 978. *Shewkow Chinens.* folio oblongo serrato nervoso.
 979. *Shuran Chinens.* Arbor trifoliata, floribus minimis racemiferis.
 980. *Stæchadis Spica*, Planta Chusan. Galeopsis folio.
 981. *Styrax liquida* folio minore, ex Insula Emuy.
 982. *Taxi folio* Arbor Japonensis, Singleo dicta.
 983. *Thea Chusan.* floribus majoribus, folio Alaterni serrato.
 984. *Thea Chusan.* floribus minoribus, folio Alaterni cuspidato.
 985. *Thea Chusan.* sylvestris non potabilis. The flowers much the same with the common, but the leaves less and thicker.
 986. *Trachelium Carolin.* flore purpureo uno versu disposito, Asclepiadis folio.
 987. *Vaccinia Chusan.* flore tubuloso, Pruni folio.
 988. *Valeriadendron Madraspatan.* minus.
 989. *Viburnum Chusan.* Spinofum, folio-digitato.
 990. *Vitex Crocodil.* foliis oppositis Arbuti.
 991. *Vitis facie* frutex Emuyac. foliis serratis integris & tripartitis.
 992. *Vitis forte Emuyac.* folio trifido dentato.
 993. *Ulmi folio* minore frutex Chusanensis.
 994. *Ulmi folio* minore splendente Emuyac.
 995. *Volubilis Chinens.* Lauro-cerasi folio minore.
 996. *Waga Guineenf.* spinosa, Mimosa facie lignosa.
 997. *Yang diu Chinens.* Arbor Salicis folio ramulis pendulis. Frequently painted on Japan work. Of its wood they make arrows.
 998. *Yahap Chinens.* Arbor flore albo, folio Anonæ venoso.
 999. *Zizyphus Chusan.* foliis subtus argenteis, floribus minoribus.
 1000. *Zizyphus Chusan.* Suberis folio, subtus punctato.

Explanation of the Marks and Abbreviations.

☞ denotes it new, or but doubtfully described.

A. a native of England.

Act. Phil. Transactions of the Royal Society.

List. De Insect. in J. Goedart, à M. Lister, M. D. 1682, 4to, 1685, 8vo.

— A. Hist. Animal. Angliæ ejusdem. Lond. 1678, 4to.

— app. Append. ad Hist. Animal. Angl. ejusd. Lond. 85, 8vo.

— H. C. Hist. Conchyliorum, lib. 4. ibid. 1685, fol.

Mal. in the margin, shews it to be a native of Malabar.

Offic. of medicinal use in the Shops.

De SCARABÆIS & BOMBYLIIS Anglicanis :

An Account of ENGLISH BEETLES and BEES.

THIS Treatise may appear a subject unworthy notice, to those who do not consider their immense profusion of Colours, their efficacy in Physick, great use in Dying, &c. To instance but a few: HONEY; WAX; SILK, which attires the Rich, and feeds the Poor; the COCHINEEL's rich Dye and Cordial; the power of CANTHARIDES externally, and, corrected, a great Diuretick internally; the daily use of MILLEPEDES in sweetening the Blood, and correcting ill Juices, often experienced in Scrophulous cases: and I doubt not but there are many other Insects no less efficacious, which time and experience may discover.

They are not destitute even of Political and Mechanical knowledge, as the Industry of the ANT, the wonderful Mechanism of the SPIDER's Web; their Coffins, and Changes from the Egg, Caterpillar, Chrysalis, &c. from Land to Water, from Water to Air; their different stated Times, in their Changes, of a few Hours, Days, Weeks, Months, (some in the Moth state living but Six Hours, and some remaining in the Chrysalis Seven Years); in Their momentary lives, in arts ever perfect, We ever improving; their Parental Sagacity in placing their Chrysalis's and Eggs from the inclemency of weather, and the more destructive hands of man; the Symmetry in the Architecture of almost the whole Winged, &c. Creation, sufficiently demonstrate. Our principal arts are from animate and inanimate; Navigation from Shells, Wool-combing from the Bur, Weaving from Spiders, &c. He must be daring who attempts many of their labours. Therefore let no one scoff at them, but recollect, that what GOD deigned worthy of his creation, requires our contemplation and wonder: and let us with the Holy Psalmist admire, and say, "Oh, how wonderful are thy works, O Lord! in wisdom hast Thou made them ALL!"

We shall range this Class according to the shape of their *Antennæ*, or Horns.

C A P. I.

SCARABÆI Cornubus *Pectinatis*, or COMBERS,

Because the Horns of these Beetles end pectinated like a Comb, as is obvious in that figured in Petiver's Gaz. Tab. 19. No. 2.

1. *Scarabæus Pectinarius maximus Cervus volans* dictus. *Cervus volans* fœmina Mouffeti Insector. p. 148. fig. Stag-Beetle, or Flying Buck. A large and specious Beetle, taking its name from the likeness of its *forcipes*, or pincers, resembling stag's horns: these are ferrated towards the points on the insides, and forked at the tip: the sheaths and these are of a chestnut colour; the head and shoulders black: About two inches long, of which the sheath is somewhat the shorter half, but more than half an inch broad. These appear, in warm evenings about Midsummer, in several places near London, as Greenwich Park, Woolwich, Enfield Chace, &c. The horn-like pincers of this creature have been seen to move, two days after its being separated from the body.

2. *Scarabæus Pectinarius maximus, forcipibus minoribus. Cervus volans mas* Mouffet. p. 141. Stag-Pincer. The body of this resembles the last in shape and size; but its *forcipes* are only crooked pincers, instead of stag-like antlers. These are found where the others are. Mouffet has given a good figure of this in the first page of the Appendix to his *Histor. Insector.*

3. *Scarabæus Pectinarius major, forcipibus aduncis.* Lesser Stag-Pincer, wholly black, and much less than the last. I do not remember where I found it, and have only seen another with Mr. Dandridge.

4. *Scarabæus Triceros niger, antennis pectinatis* Gaz. tab. 23. fig. 3. Bull-Comber, is about the size of a hazel-nut, of a shining black; the sheaths furrowed, but back smooth: in the midst of the head stands a short horn, with one much longer, and strait on each side, reaching near to the tip of the nose. These I have met on Hampstead Heath, in cow-dung, in April and May, but not common.

5. *Scarabæus Pediculus* Musci Pet. 9. Great Loufy Beetle, is the size of a large nutmeg, black, with a shining lustre of copper or purple; its sheaths streaked, and back smooth like the last; frequently met with from spring to autumn, and generally has many small lice under its belly; commonly found in cow-dung, and on the wing in autumn-evenings.

6. *Scarabæus Pediculus minor.* Lesser Loufy Beetle. In all things this resembles the last, but is not above half so big.

7. *Scarabæus Pediculus minimus.* Least Loufy Beetle, about the size of a horse-bean, found with the next and two former.

8. *Scarabæolus fœmarius, vaginis rubris striatis.* Small Red Dung-Comber. The head of this is black and smooth; the sheath furrowed and red. It is not above half so big as the last.

9. *Scarabæolus fœmarius, vaginis fuscis striatis.* Small Brown Dung-Comber. The sheaths of this are brown; otherwise like the last, but less.

10. *Scarabæolus fœmarius vaginis fuscis striatis nubilatis.* Small Brown Clouded Dung-Comber. This differs not from the last, but in having clouded sheaths; met with in the spring under cow-dung, and often flying.

11. *Scarabæus arboreus major Castaneus* Gaz. tab. 19. fig. 22. Common Tree-Chaffer; a large brown Beetle, with ribbed sheaths, and blackish back and target: the sides of its body are eminently marked with white triangular spots; the tips of the *antennæ*, or horns, are the most conspicuous and comb-like of any I have yet met with, as you may see by the figure. Common in Hampstead, and other woods, most part of the summer, and are food to many birds.

12. *Scarabæus arboreus major, antennis minoribus.* Common Tree-Chaffer, with small combs. The comb-horns of these are much smaller at the ends than the last; otherwise very like: this often happens, as a note of distinction, between male and female, in divers other insects.

13. *Scarabæus Pectinatus minor villosus* Gaz. tab. 22. fig. 9. Hoary Tree-Chaffer. These are much less than the two former, hoary, and more rare to be met with.

14. *Scarabæus minor Filicinus* Gaz. Nat. 22. 4. Bracken-Clocks, about the size of pease, with brown sheaths, and black or green shoulders; common about Midsummer on the female fern or brake; said to be good bait for fish.

15. *Scarabæus Pectinarius viridis, elytris quasi fractis* Gaz. 23. 12. Green Chaffer, is pretty large, of a shining changeable green, with whitish cracks cross the sheaths, by which it is known; often found amongst roses, and on willow-trees, sucking its honey-dew in May.

16. *Scarabæus Pectinarius viridis, elytris asperis.* Green rugged Chaffer; same size, but somewhat rough-coated; its sheaths very little cracked, but more on the tail.

17. *Scarabæus Pectinarius oblongus niger, vaginis latis obtusis.* Black Bob-tail, near half an inch broad, and one long; wholly black; its neck protuberant, as are its shoulders in divers places; the sheaths ribbed and pounced; the tail ciliated, or hair-fringed. Mr. Dandridge once found this in a saw-pit near Woolwich in April, with whom I have only seen this and the last.

18. *Scarabæus Gallicus, è nigro croceoque mixtus* Gaz. Nat. tab. 13. 6. Orange-girdled Comb-Clock. It is about half an inch long, and a quarter broad; the sheath lifted with black and orange. Dr. Krieg got this about Paris; figure as above. Seen since in Cain Wood.

19. *Scarabæus niger acephalus.* Small Black Turtle-nose. This little Beetle, when taken, draws in its head like a turtle, that at first view you would think it had no head, or had lost it. I caught this flying by the Boarded River. They are found in cow-dung. There are two sizes of them.

20. *Scarabæus minor fœmarius, scutâ latâ ferè aculeatâ.* Small horned Dung-Comber, about the size of pease, having a broad brown back, with a helmet-head and a thorn often in the middle; its sheaths broad and short, speckled black and buff. I have found them plentifully in cow-dung in May.

SECT. II. COCHINEEL BEETLES, OR LADY-COWS, are small Beetles, of a semiglobular form, generally round and spotted, some few without, and others longish.

GENUS I. The following have an orange or pale yellow ground, more or less spotted.

21. *Cochinella Anglica vulgatissima, f. rubra septem nigris maculis notata* Gaz. 21. 3. Common Lady-Cow, has generally seven black spots on an orange-ground, but sometimes varies. Met with most part of the summer; known even to children, with whom they are a sport.

22. *Cochinella minor crocea, maculis plurimis zonatis.* Small Girdle-spotted Lady-Cow, not half so big as the common; its shoulders speckled; the sheaths spotted in rows, viz. three in the upper girdle, six in the middle, and four near the tail.

23. *Cochinella crocea, maculis plurimis stramineis guttata.* Steel's Straw-spotted Lady-Cow, less than the common, and differently spotted, viz. one next the head, three in the midst, two lower somewhat larger, and one at the tip in each wing, all of a straw colour; in a garden at Denham-court, near Uxbridge.

24. *Cochinella minor crocea, duodecim maculis notata.* Small twelve-spotted Lady-Cow, about the size of the last, but differently marked, viz. three rows of four spots in each line.

25. *Cochinella minor crocea, decem maculis ornata.* Glandvil's ten-spotted Lady-Cow; one of the smallest size; its head and back speckled, besides those of the sheaths, which are six in a row in the midst, and one in each, both above and below.

26. *Cochinella Anglica bimaculata, f. minor rubra,* Gaz. 21. 4. Double-spotted small Lady-Cow; size of the last, with a black spot in the midst of each sheath, and a white one on each side of its head. I have met with divers of these on rose-bushes about September.

27. *Cochinella parva fulva immaculata*. Small Buff Lady-Cow; a very small beetle without spots. On the lime trees in St. James's Park, about the end of August. Mr. Dandridge.

28. *Cochinella parva lutea*, maculis plurimis nigris aspersis. Dandridge's small, Spotted Yellow Lady-Cow, are of the least size, having pale sheaths, with about twenty specks, besides those on its back or shoulders. Caught by him in April, between Blackheath and Eltham.

29. *Cochinella parva lutea*, maculis & meandris nigris. Dandridge's Blotted Yellow Lady-Cow; size of the last, but the spots and turnings large, each colour equally mixed. Found in Cain Wood.

30. *Cochinella parva lutea*, maculis oblongis. Petiver's Long-spotted Yellow Lady-Cow; one of the smallest sort; its ground straw colour, as its head, but shoulder black; its sheaths sprinkled with large longish black spots.

GEN. II. Spotted Cochineel, on a black ground.

31. *Cochinella nigra parva*, sex maculis fanguineis. True English Cochineel; the ground black, the two spots next the head much the largest, the two middle ones less, and at the tips very small. This scarcely differs from the true American Cochineel, but is somewhat less.

32. *Cochinella nigra parva tetramaculata* Gaz. 69. 10. Four-spotted English Cochineel. Want the two spots at the tail, otherwise the same. Both pretty common, and I believe male and female. On rose-trees, about Sept. with No. 26.

33. *Cochinella nigra parva*, maculis plurimis croceis. This and the next I have seen with Mr. Dandridge.

34. *Cochinella nigra parva*, maculis plurimis lutescentibus. This and the last I take to be male and female.

35. *Cochinella smarina nigricans*, apicibus subrubris. Size of No. 31. Found in cow-dung in the spring.

GEN. III. Longish Cochineel, with or without spots.

36. *Cochinella oblonga crocea*, major, tetramaculata. Long Spotted Lady-Cow. Sheaths tawny, with two black spots near the shoulders, and two in the middle larger; its head wholly black. Found in Cain Wood, on the oak and hazel, most part of the year.

37. *Cochinella Occidentalis oblonga*, rubra, tetramaculata Gaz. 21. 5. Glanvill's Cow-Lady, with four spots. The ground of this is of a brisk red; the four black spots very large, considering the size of the Beetle. Caught in the West of England.

38. *Cochinella oblonga media*, maculis nigris plurimis. *Scarabæolus oblongus aureus*, maculis tredecim in vaginis ornatus Gaz. 29. 9. Six spots on each wing, and one on the fissure; its shoulders black, with yellow edges.

39. *Cochinella oblonga media*, maculis nigris paucioribus. Same size with the last, but has three or four spots only on each sheath, towards the back, and none near the tail. Both found in Cain Wood.

40. *Cochinella oblonga minima*, maculis plurimis exiguis. Dandridge. This is less than the Water-Flea (G. N. 13. 9.) and has at least twenty specks on its sheaths, besides those on his shoulder. Found about Hornsey in May.

41. *Cochinella crocea major immaculata*, dorso Chalybeato. Great Buff Cow-Lady. On willow-trees in Cain and Bishop's Wood.

42. *Cochinella crocea media*, immaculata. Lesser Buff Cow-Lady. The shoulders flatter and furrowed; the body smaller.

43. *Cochinella media Chalybeata*, marginibus croceis. Saffron-listed Steel Cochineel. Size of the last; edges of the sheaths selvedged with orange; the rest and head like polished steel. Dr. Hans Sloan found this on a sort of *Linaria*, in a garden at Enfield, in September.

SECT. III. MONACHI, or MONK-BEETLES, come next to the Cochineels, but are flatter, larger, and almost square; the Horns jointed, but thickest at the ends. To these we subjoin the TESTUDINARI, or TURTLES, being very near of a kind.

44. *Monachus niger*, rugosus major, scapulis croceis. Saffron-coloured Monk. Same size with the next; sheaths black, ribbed, and as it were wrinkled; shoulders or cowl orange, and sometimes black in the middle: which may be male and female. Found in the sand-pits by Woolwich in April.

45. *Monachus niger lævis Nobis*. *Scarabæus Viarius niger*, vaginis fulcatis Gaz. 23. 10. Black, Smooth Monk. Both hood and sheaths wholly black; the last scarce discernibly ribbed, with a welted brim or edge. Found in path-ways near corn-fields.

46. *Monachus medius niger*, striatus. Black, Ribbed Monk; less than the last; its shoulders mealed, with divers ribs along its sheath.

47. *Monachus medius niger*, rugosus Nob. *Scarabæus Carnivorus niger*, vaginis fulcatis ac rugosis Gaz. 23. 11. Rugged Black Monk; size of the last, but differs in having rough, mealed or spotted sheaths between the ribs. I have found these and the last in the bowels of dead pole-cats and weasels.

48. *Monachus niger lævis*, rostro oblongo. Smooth Snouted Monk. This and the next differ from the foregoing and Turtle-Beetles, in having an exerted snout.

49. *Monachus niger striatus*, rostro oblongo. Rib Snouted Monk; less than the last, with streaked sheaths, but smooth hood.

50. *Testudinarius Hamstedienfis* tetramaculatus Gaz. 12. 2. Lady-Cow Turtle. Its sheaths buff, with four black spots; the cowl black, with buff brims. In Cain Wood.

51. *Testudinarius viridis* List. fig. 116. id. Angl. p. 113. GREEN TURTLE; wholly green; found in Cain Wood, not common.

52. *Testudinarius aureus*, guttulis nigris aspersis Gaz. 29. 8. Spotted Meadow Turtle; size of the last, of a buff colour, speckled with black. In a meadow near Woolwich.

53. *Testudinarius fulvus nævofus*. Freckled Buff Turtle; size of the last; the sheaths roughish and freckled.

54. *Testudinarius fulvus minor nævofus*. Small, Freckled, Buff Turtle; like the last, but less and smoother. Both Mr. Dandridge's.

CAP. II.—SCARABÆI *Antennis Geniculatis*,

BEETLES with JOINTED HORNS.

Of which Kinds are the *Cantharides*, Goat-Chaffers, &c.

SECT. I. CANTHARIDES, or Beetles with Tender Sheaths.

1. *Cantharis viridis verus*. *Cantharides Officinarum Dale* Pharmacolog. 539. 3. *Musca Hispanica quibuldum*. Common Blistering-Beetle, called Spanish Flies. The first found in England, that I know of, was caught near Clerkenwell church, 1696. by a gardener, who used to bring me what uncommon insects he got; and I do not remember any more found, till 1706, or 7. and then many, within ten or twelve miles of London, about Richmond, in swarms, of a hundred or more in a cluster. In the physic-garden at Chelsea, on the Phillyreas.

2. *Cantharis minor viridis*. Four times smaller than the shop kind, and very slender. Found about Boxhill in May, and near Peckham in July. I have also met with them at Hampted Heath, in Moufe-ear flowers.

3. *Cantharis minor viridis*, cruribus tuberosis. Found with the last, and differs only in having very thick thighs in its hinder legs. Perhaps male and female.

4. *Cantharis minor viridis*, apicibus miniatis. Thicker and shorter than the last; the sheaths tipped with scarlet. The first time I found this, was at the horse-ferry against Twickenham, Jan. 12. 1696. since seldom seen.

5. *Cantharis minor rubescens*, dorso viridante, Dandridge. Sheaths reddish, except a small part next the back and half-way the slit greenish, as are its head and back, but face pale.

6. *Cantharis minor Cupreus*. Of a beautiful copper lustre, and seem pounced. Found in the marshes between Redriff and Deptford in July.

7. *Cantharis azureus perelegans* Gaz. 31. 2. These are of a beautiful blue lustre. Found about houses in June and July.

8. *Cantharis media vulg. nigricans*. I caught these, May 21. 1696. in coitu; and the next day they laid buff-coloured eggs in a single chain or line. Frequent amongst Nettles.

9. *Cantharis minor nigricans*. Much less than the last, with yellowish thighs, as the other are buff.

10. *Cantharis media vulg. fulva*. This differs from No. 8. in being mostly buff; more common. Amongst Nettles in May and June, when they are very salacious.

11. *Cantharis minor fulva*, apicibus nigris. Distinguished from the last in being less, and its buff sheaths tipped with black. Appear later than the three former.

12. *Cantharis citrina minor* Dandridge. Differs in shape from all the former, in being rounder, and the tips of the sheaths more pointed: it is of a fine lemon colour. Mr. Dandridge found this on the Moth-Mullein, between Woolwich and Gravesend, the beginning of June.

13. *Cantharis Vespoides cingulis angustis pallidis* Dandridge. Gaz. 63. 7. This differs from the next, in being somewhat larger, the girdles pale and narrow, its legs and horns buff. Mr. Dandridge caught this elegant Beetle in his own yard, Moor-fields.

14. *Cantharis Vespoides cingulis latioribus luteis* Gaz. 73. 6. The girdles in these are of a fair yellow, much broader, with a remarkable ring next the head, and another above the sheath, with a spot to supply the vacancy. These differ somewhat in size, which their sex may occasion. I have met with them amongst Nettles.

15. *Cantharis Vespoides parva*, cingulis luteis Gaz. 73. 5. Pretty like the last, but three times smaller, and its sheaths not so black.

16. *Cantharis Vespoides obsoletè marmoratus* Dandridge. The head, horns, legs, and a broad list next the tip of the tail, are black; the other parts of the sheaths variously marbled with darkish colours. Mr. Dandridge found this in Moor-fields, in August, 1708.

SECT. II. CAPRICORNI, or GOAT-CHAFFERS, differ from the last, in having thicker or more crusty Sheaths, with longer Jointed Horns: they generally reflex, or turn backwards, like those of Goats; from whence their name.

17. *Capricornus major viridis Moschatus*. *Capricornus odoratus* Mus. Regal. Societatis 164. Great Green Goat-Chaffer, or Musk-Beetle. A very specious, elegant Beetle, the largest of this kind found yet in England, its body being more than an inch long, and its horns about the same length: it is of a shining green or copper lustre; which changeable reflexions, and differing magnitude, are owing to their different sexes, Petiver, Mus. 9. tells you. This insect, whilst living, has a very fragrant musk-like scent, which it loses when dead. Found on willow-trees, not common.

18. *Capricornus vulg. viridis*, maculis aureis Gaz. 69. 11. Common Green Goat-Chaffer, with Golden Spots; remarkable for its golden specks, having three on the outside of each sheath, with

with two in the middle, and one at the tips; his breast, neck, and thighs, tinged with a glorious green and copper lustre; his mouth white, and *forceps* deeply notched, which shews him a bold and voracious insect. Seen in gravelly paths, from March to Sept. Very nimble, taking wing as soon as you approach. I first took notice of this beetle on Hounslow Heath; common on Hampstead Heath, and the woods adjacent.

19. *Capricornus viridis bimaculatus*. Like the last, but has no specks on the edges, only two in the midst of the sheaths.

20. *Capricornus viridis binis lituris medio vaginalium*. The two spots on this are larger than the last. Both found with the common, though not so frequent.

21. *Capricornus Rufficus cinereus, cornubus longissimis* Gaz. 8. 8. Where it is very accurately figured. It is for the most part grey, pounced with small black warts: its geniculated horns are party-coloured, viz. black and grey; $1\frac{1}{2}$ inch long: it has a clouded circle near the midst of its sheath. From Mulcovy, by one of the Czar's physicians. Found Aug. 7. 1696. in a garden near Aldersgate-street.

22. *Capricornus Londinensis cinereus, cornubus prælongissimis*. The shape and colour of this are like the last, but somewhat darker; the whole body little more than half an inch, but the length of its horns very surprising, viz. above three inches, which is near six times the length of its body. Found in a house in Maiden-lane near Wood-street.

23. *Capricornus medius Castaneus*. The sheaths (which grow tapering towards the tail) and part of its legs, are chestnut-colour'd; the head and shoulders black; its horns near the length of its body, viz. $\frac{3}{4}$ of an inch. Found in Cain Wood.

24. *Capricornulus Hamstedensis* exiguus, vaginis rubris, apice nigro Gaz. 30. 5. Its head, horns, legs, and tips of the sheaths, black; the rest of a reddish cast. Found in Cain Wood, June and July, in the flowers of the Dog-rose and Black-berry.

25. *Capricornus medius griseus, bimaculatus, oculis tuberculosis*. An inch long; its shoulder and sheaths grained and grey; against the hinder legs, on each side of the sheath, is a black spot between two buff fields; but, what is very particular, each eye stands at the top of a small black protuberance or wadle. Mr. Dandridge found this in a wood near Box Hill in May, and in his own house.

26. *Capricornus medius nigricans, bilineis fulvis, oculis tuberculosis*. Legs and sheaths black, except in the midst of the last are two buff lists; the eyes much waddled, so that they seem double. This and the two next Mr. Dandridge found in Cain Wood.

27. *Capricornus medius spinosus, è nigro fulvoque mixtus*. Same size with the two former; its shoulders thorny and black; as are its head, legs, and upper part of the sheaths; the rest tawny, litted with longish black streaks.

28. *Capricornus medius spinosus nigricans, undis flavescens*. Its shoulders thorny like the last, and black; as are its head, legs, and upper part of the sheath; below which, on the same ground, are two or three buffish waves.

29. *Capricornus minor griseus, maculis tergeminis flavescens*. The head of this is black, litted with yellow; its sheaths finely grained, with three yellow opposite specks in the midst of each sheath.

30. *Capricornus minor nigricans, maculis tergeminis flavescens*. Its head black and litted like the last; the body slenderer, and sheaths black, but speckled like the former. Both found in Cain Wood.

31. *Capricornus Vespoides minor, signaturis majoribus*. This and the next are male and female. Found on the umbels of the Spondylium about June and July.

32. *Capricornus Vespoides minor, signaturis minoribus*. The upper part of these sheaths is mostly yellow; whereas the other has black triangular spots. Both in Gaz. 30. 4.

33. *Capricornus exiguus, partim lanuginosus, partim fuscus*. A beautiful little insect; its head and sheaths tipped with brown; the midst white and hoary. In Cain Wood.

34. *Capricornus medius nigricans humero bioculato*. Near $\frac{1}{2}$ of an inch long, mostly black, with two shining very black eye-like specks in the midst of his shoulders, with hoary cheeks on each side. Found at Hogsdon, in September.

SECT. III. BUPRESTES, or BURN-COWS; Beetles of an oblong shape, with jointed Horns, and flat or selvedged Shoulders, and sometimes their Sheaths rimmed.

35. *Buprestis major Cupreus verruculatus elegans*. The Warty Burn-Cow. An elegant Beetle, of a greenish copper lustre; its sheaths ribbed, and finely chain-warted in its furrows. I have met with this and the next in corn-fields, not common.

36. *Buprestis major Cupreus verruculis minoribus*. Slender-warted Burn-Cow; of a shining lustre like the last; its sheaths finely streaked, and between every two or three there is one chained like the last, but with much slenderer warts.

37. *Buprestis major è cupreo purpurascens, leviter punctatus*. Pounce-sheathed Burn-Cow, differs from the last, in having three rows in each sheath, finely pinked or pounced at equal distances.

38. *Buprestis major nigricans, marginibus purpurascens*. The Sable Burn-Cow. Sheaths blackish, tending to purple, particularly its edges. The shoulders in the four last are smooth and quadrangular; their eyes very prominent. From Norway; since found in our English gardens.

39. *Buprestis media niger, scapulis latis*. Broad Black Burn-Cow. Half an inch long, a quarter broad; its sheaths furrowed, and oval-tipt; the lower part of the shoulder the same breadth with that part of the sheath next it, but narrower at the head.

40. *Buprestis media niger, scapulis angustioribus*. Narrow Black Burn-Cow. Less; but its chief distinction is in its shoulders, viz. narrow next the sheaths, broader at the head; reverse to the last.

41. *Buprestis media niger, vaginis hinc inde striatis*. Cross-streaked Black Burn-Cow. The peculiarity of this, if nicely viewed, is very remarkable, viz. there is in the middle of each sheath a cross-like obstruction, by which the furrows are discontinued from running in a straight line, as in all others we have yet seen.

42. *Buprestis media niger, scapula & corpore ovalibus*. Oval Black Burn-Cow, resembles No. 40. but somewhat less, and shoulders narrower.

43. *Buprestis media niger, scapula & corpore subrotundis*. Roundish Black Burn-Cow, differs from the last, in having its sheath and body broader pointed; whereas the other is more acute or oval.

44. *Buprestis minor ovalis niger, cruribus castaneis*. Small Chestnut-thighed Black Burn-Cow. Somewhat less than the last, and like it; has chestnut thighs, whereas the eight before are black: the body of this is oval.

45. *Buprestis Chalybeatus medius, vaginis teneris*. Little Steel Burn-Cow. Somewhat more than half an inch long, with striated sheaths, but smooth shoulders, which seem angular in a certain position of light.

46. *Buprestis Chalybeatus minor, vaginis teneris*. Small Steel Burn-Cow, resembles the last in all things, but four times less; both of a bluish shining steel hue.

47. *Buprestis medius fulvus, leviter striatus*. Little Buff Burn-Cow. Its sheaths lightly furrowed, the shoulders smooth, and both buff-coloured, with short bugle horns. Mr. Dandridge hatched this from a Hexapode Caterpillar of a buff colour, found in meat July, 1707: which in about a month cast its skin; he kept it all winter in a box of meal, on which it constantly fed, and in April cast another skin, and a third about the beginning of June, after it had lain stiff and without motion, as if dead, for two or three days; and then it changed into a white coffin of the shape of a Staphyline Beetle, with two black eye-like specks; and in this shape it continued till the beginning of July, and then hatched into the Beetle as above.

48. *Buprestis medius fuscus, leviter striatus*. Little Brown Burn-Cow. Every way like the last, but in colour.

49. *Buprestis minor fuscus*. Small Brown Burn-Cow. This is somewhat flatter, besides less, and the sheaths deeper striated.

50. *Buprestis minor rufus, leviter striatus, & quasi punctatus*. This is thicker and shorter than any of the five foregoing; its shoulders smooth, the sheaths lightly striated, and seem pounced. Found about Cain Wood, in summer.

51. *Buprestis minor obscurus Cupreus*. The shoulders of some of these have a green cast; the sheaths of it dull copper, lightly streaked.

52. *Buprestis minor obsolete viridis, scapulis nigricantibus*. The sheaths of a dark green streaked, the shoulder smooth and blackish; as big again as the last.

53. *Buprestis minor omnino viridis*. Of the size of No. 51. and wholly green.

54. *Buprestis minor omnino Cupreus*. Like the last, but of a shining copper.

55. *Buprestis minor viridis, scapulis cuprosis*. Larger than the last, with green sheaths, but copper shoulders.

SECT. IV. SCARABÆI IMPENNES, are such Beetles as have no Transparent or Membranaceous Wings under their Crusty Sheaths.

56. *Scarabæus impennis niger rotundus major*. *Scarabæus agrestis oviparus, melanocyanus, succo sanguineo*. Gaz. 122. 6. Bloody Egg-Beetle, have a tender body, and, if wounded, emit a transparent bloody juice: they are smooth, and of a shining lustre like polished steel: their horns are elegantly geniculated, or bugle-knotted. I have often met with them in the fields.

57. *Scarabæus impennis niger rotundus minor*. Small Egg-Beetle, differ from the last only in size, being four times less, and often found with them.

58. *Scarabæus impennis niger oblongus major*. *Scarab. impennis tardipes* Gaz. 247. 7. Slug-Beetle. Found in kitchens, cellars, and out-houses, in the spring and at most other seasons: he is of a very sluggish motion, and walks as if frozen.

59. *Scarabæus impennis niger oblongus minor*. Lesser Slug-Beetle. Less, and not so black as the last; its shoulders narrow, and head very long and snout-like, with pale protuberant eyes near the shoulders: it has pincers, with two pair of comb-like feelers, besides its jointed horns.

60. *Scarabæus impennis Chalybeatus major, seu Proscarabæus Fæmina vaginis brevioribus*. The Female May-Beetle. All over of a shining black, with a faint of blue, like polished steel; their horns finely geniculated, and bend towards the points: their sheaths scarce cover half their body, being gross. Found in a nursery at Brompton Park, April 12, 1696. feeding on the *Ranunculus Pratenfis*. On running a pin through the largest, viz. the female, it emitted a yellowish liquor, which seemed to be spawn; and it agrees with what Godart relates concerning its eggs.

61. *Scarabæus impennis Chalybeatus minor, seu Proscarabæus Mas vaginis longioribus*. The Male May-Beetle. The sheaths sometimes cover the whole body, or very near, being not so corpulent as the females. These are often in pairs, as I have since observed, in fields and meadows in the spring.

SECT. V. De HYDROCANTHARIS, OR WATER-BEETLES.

The Horns of most are jointed, slender and needle-pointed, and some pectinated; yet, since they are all found in the Water, I would not separate them.

1. *Hydrocantharus maximus laevis antennis pectinatis* Gaz. 74. 11. Hyd. major *Anglicus* Moffet. *Scarabæus* 2. aq. Aldrovand. Infect. 449. descr. fig. 2, 3. p. 500. Id. ed. Francof. tab. 8. fig. 2, 3. p. 178. It is about two inches long, and near one broad; the sheaths extended above two and a half. It is black, smooth and shining above: the light furrows on the sheaths are widest and most apparent towards the tail: it has two pair of feelers, those next the mouth much the shorter: its horns end pectinated, or comb-like. Along the middle of its belly runs a rib, terminating in a shining sharp thorn: the tips of the two hinder legs are hairy, with a long slender spine on the insides of the next joint: the ends of its fore feet are forked. From Wifbich, and in ponds beyond Ilington. Moffet says, these fly in the night, but in the day are rarely seen out of the water.

2. *Hydrocantharus max. laevis, pollicibus lanceatis* Gaz. 74. 12. Differs from the foregoing, only in having a lancet, or a farrier's steam-like protuberance, next the extremities of its fore feet only. I suppose these male and female.

3. *Hydrocantharus medius ater lucens* Gaz. 70. 4. Wholly black, smooth, and very shining; $1\frac{1}{2}$ inch long, $\frac{1}{2}$ broad; its feelers of three joints, the tips shortest; its horns pectinated. N. B. These three last are *Delta*-backed, i. e. with a triangular shell in the midst of its back, between the sheaths.

4. *Hydrocantharus minor latus nigrescens*. Is much flatter than the last, and smaller, viz. $\frac{3}{4}$ long, and $\frac{1}{2}$ inch broad; smooth and shining, but not so black.

5. *Hydrocantharus minor latus rubescens*. Dandridge. Same size and shape with the last, but not so shining; sheaths reddish, with head and shoulders black. Found in a pit in Hornsey Wood.

6. *Hydrocantharus parvus Chalybeatus lucens. Cantharis vel Pylolampis* Gefneri Infect. p. 352, 1c. Omnium vero minimi sunt illi, &c. Moffet. 164. *Scarabæolus niger nostras, super aquam velociter circumnans* Gaz. 13. 9. *Scarabæus aq. subrotundus è cæruleo viridi colore splendente undique tinctis* Ray Hist. Infect. p. 87. 10. This must be our common Water-Flea, though he be somewhat mistaken in the colour; since this is the only Beetle that so swims on the surface: $\frac{1}{2}$ an inch long, $\frac{1}{4}$ broad; very smooth and shining, of a black steely hue. Common in all ditches and ponds.

7. *Hydrocantharus major laevis, marginibus flavis* Gaz. 72. 8. 5. Lister. tab. mutis. Some of these are above $1\frac{1}{2}$ inch long, and about half as broad: they are smooth and blackish, but edged with a dull yellow: these have striated spangles on their fore feet (which are accurately expressed in Mr. Petiver's Tables :) their horns are very slender, long and jointed, accompanied with a pair of short feelers.

8. *Hydrocantharus major striatus, marginibus flavis* Gaz. 72. 8. 1. Very like the last in colour and magnitude; but its sheaths deeply furrowed, except the tips, which are smooth. This is not spangle-footed.

9. *Hydrocantharus major striatus, ventre nigricante*. Dandridge. This differs from the last, in being a degree less, and without yellow lists cross the shoulders; but particularly, in having a black shining belly; whereas the others are mostly buff. This is the only one Mr. Dandridge has as yet seen, who caught it in the gravelly water-pits beyond Ilington, in a field. These three last have small delts or triangles.

10. *Hydrocantharus medius laevis* Gaz. 70. 3. *Hydrocanth.* 4 Liff. tab. mutis. Resembles No. 7. but much less, viz. $\frac{3}{4}$ long, $\frac{1}{2}$ inch broad; the sheaths smooth, but not so black as the last: if looked through, they are transparent, and finely mottled and specked with black; its shoulders and edges yellowish, as No. 7. and 8. This is spangle-footed, which I observe is more particular to the smooth ones, as No. 2. and 7. and belongs but to one of the sexes.

11. *Hydrocantharus medius striatus* Gaz. 70. 2. *Scarabæus aq. minor* Aldr. Infect. 455. fig. 6. edit. Francof. 178. fig. Of the shape and size with the last; but its sheaths broad, and deeply furrowed, with not above five in each; whereas No. 8. has as many more, and thick set. N. B. The membranaceous wings of all the foregoing are not above a quarter part longer than their sheaths or cases.

12. *Hydrocantharus medius, laevis oblongus*. This chiefly differs from No. 10. in being narrower, longer, and not spangle-footed.

13. *Hydrocantharus minor laevis, humero flavescens*. About half the size of the last, with a black spot in the midst of its yellow shoulder.

14. *Hydrocantharus minor turgidus, nigrescens, umbrâ fulvescente*. Steel. These are about the size of Brackenclocks, but smooth, and of a blackish or dirty hue, mixed with somewhat paler lights; its jointed horns hair-like, and pointed. At Denham, Bucks.

15. *Hydrocantharus parvus nigrescens*. Like the last, but four times less. Most of these are found in the ponds, ditches, and standing waters, about town. Mr. Willoughby observes all water-beetles to be very nimble; and when they happen to lie on their backs, they jump themselves on their legs by leaping.

SECT. VI. SCARABÆI ELASTICI, OR SNAP-BEETLES; because, if you hold their bodies between your fingers, they will with their head and shoulders snap with that force, that you can scarce hold them: They have also such a springing

faculty, that, if you lay them on their backs, they will jump up divers times, till at last they fall on their feet. The nature of these is also very well described by the accurate Mr. Ray, in his Hist. Infect. lately published, p. 78. 13. and by the learned Dr. Lister, in the same book, p. 387. cap. 3.

16. *Scarabæus Elasticus ater nigrescens*. Great Black Snap. This is much the largest I have yet seen in England, being near three quarters of an inch long, and answerably broad, with black streaked sheaths.

17. *Scarabæus Elasticus ater medius*. Middling Black Snap. Much narrower than the last, yet near as long; its shoulders smooth and very shining; the sheaths shine also, but not so bright, being streaked as the last.

18. *Scarabæus Elasticus Cupreus medius*. Small Copper Snap. Slender like the last, but not above half so big; it is of a dull copper lustre.

19. *Scarabæus Elasticus fuliginosus minor*. Small Sooty Snap. Being of a dark brown or sooty hue, and very small, viz. not more than the size of the last.

20. *Scarabæus Elasticus Castaneus medius, scapulâ nigricante*. Middling Chestnut Snap, with black shoulders. About the size of No. 2. but narrower; its sheaths chestnut and streaked; the shoulders black, smooth, and both shining.

21. *Scarabæus Elasticus Cast. medius, scapulâ nigricante, margine fusco*. Middling Chestnut Snap, with brown edged shoulders. Very like the last; but the edges of its shoulders are of the same colour with the sheaths, and the middle black.

22. *Scarabæus Elasticus Castaneus parvus*. Little Chestnut Snap, with black shoulders. Very slender, and three times less than the last.

23. *Scarabæus Elasticus major nœvofus*. Great Freckled Snap. About half an inch long, and proportionably broad; its hair coloured with pale freckles.

24. *Scarabæus Elasticus Marmoratus major Cupreus*. Copperish Marble Snap; narrower than the last, but as long; of a shining copperish lustre, somewhat marbled.

25. *Scarabæus Elasticus medius verficolor*. Changeable Velvet Marbled Snap; as broad, but shorter than the last; it is both curious and variously marbled, according to the position of light. N. B. All, or most of these snaps have been observed in Cain-Wood, at divers seasons.

SECT. VII. CURCULIONES, OR PIPERS; from their long snout, out of which come their horns: these are smooth and slender at setting on, bending in the middle, and thence jointed to the ends, which generally terminate pectinated, as is obvious in one of the largest of this kind, Gaz. 35. 5.

26. *Curculio major niger, corpore crassiore*. Great Black Gros Pip. This is half an inch long, and one quarter thick, very black, and lightly pounced. Found in the spring, about Hackney, and in King Harry's Walk, between Kingsland and Newington, and in Cain-Wood.

27. *Curculio major, corpore nigro longiore*. Great Black Slender Pip. It differs from the last, in being a little less and slenderer bodied, with much longer horns. Caught in a lane between Woolwich and Eriff, in the beginning of June.

28. *Curculio medius niger striatus*. Middling Black Pin-furrowed Pip. This has shorter horns, and is less than the last: its furrows are finely pin-holed, if nicely viewed. N. B. These three seem to have no split in their sheath, so that I take them to be wingless.

29. *Curculio minor rugosus niger*. Small, Black, Rugged Pip. This is more deeply furrowed and pounced than the last, especially if seen through a glass, which makes it look rough. These four last are of the curious Mr. Dandridge's observation.

30. *Curculio major subcinereus undatus*, Gaz. 24. 4. Cat. 76. Dandridge's Large Waved Pip. G. N. Cat. Angl. 77. This is the largest of this kind yet observed in England, viz. a fourth part longer than No. 26. The ground is grey, marked with black: observed as yet only in the place mentioned Gaz.

31. *Curculio medius, maculis griseis tessellatis*. Steel's Chequered Pip. It is half an inch long; the head and part of the back blackish, the rest grey, with pale chequer-like specks. This elegant insect Mr. Steel first discovered about Denham-court near Uxbridge, with No. 14.

32. *Curculio fuscus, dorso quasi cordato*, Gaz. 50. 9. Cat. 75. Dandridge's Hart Pip. Gaz. 76. This and the next Mr. Dandridge caught in a height, or small isle, at Henley on the Thames, in August.

33. *Curculio medius griseus, ano albente*. White-rumped Grey Pip. This has a brown list cross the midst of the sheath, and somewhat pale near the shoulders, but whitish at the tail, as the last. Both these of the same size.

34. *Curculio parvus ruber, capite nigro. Scarabæolus aureus, capite nigro* Gaz. 31. 3. Cat. 89. Black-headed Red Piperkin. Gaz. 79. The back, sheaths, and thighs red, with head and feet black: frequent in Cain-Wood all summer on hawthorns, &c.

35. *Curculio perexiguus ruber, rostro prætenui*. Bristle-snouted, Red Dwarf Pip. Shape, and colour of its sheaths, same with the last, but four times less; its head much different, and snout very slender and long. Found in the sand-holes near Woolwich.

36. *Curculio minutus minimus* Gaz. 22. 5. Cat. 77. *Scarabæus ex toto coccineus* Lister. Ray Hist. Infect. p. 394. tit. 32. Scarlet Small Pip. G. N. Catalog. Anglicè 78. Petiver found it at Epfom, in company with Dr. Breynius and Dr. Lister, who had long before observed it in Lincolnshire.

37. *Curculio parvus splendide viridis* Gaz. 50. 6. Cat. 72. Bright Green Piper G. N. Cat. Angl. 73. Both head and shoulders of this are elegantly green, and the last pounced; its front of a glorious copper lustre, as are its legs in front; the tail blunt or bottle-arsed.

38. *Curculio minor æruginosus vulgaris*. Scarabæus minor æruginosus Musei Petiver. 10. fig. Common Verdigrease Piper. Somewhat more than half an inch long, of a shining verdigrease, with an oval tail. These are common amongst nettles.

39. *Curculio parvus splendide æruginosus*. Gaz. 50. fig. 7. Cat. 73. Verdigrease Piper G. N. Cat. Angl. 74. Same shape, but less, and more resplendent. Cain-Wood.

40. *Curculio parvus æruginoso-cupreus*. Verd-Copper, Small Piper; like the last in size and shape, highly tinged with a copper lustre.

41. *Curculio parvus è cœruleo Chalybeatus*. Small Steel Piper. Size with 37. slenderer; an elegant steely blue. Cain-Wood.

42. *Curculio perexiguus niger*. Black Mite Piper. Exactly of the same shape and size, but black.

43. *Curculio perexiguus è cœruleo Chalybeatus*. Steel Mite Piper. Like the last, but four times less.

44. *Curculio rotundus perexiguus griseus maculatus*. Dandr. Grey Tare Piper; being about the size of a tare, and globular: it is wholly grey, except a large black spot in the midst of its back, and a smaller near the rump; its snout long and slender. Mr. Dandridge found eight on the leaves of Mullein, at Box-Hill, 20th of May.

45. *Curculio rotundus perexiguus nigrescens, capite griseo*. Dandridge's Black Tare Piper; same shape as the last, but a size less, with two black spots, each attended with a couple of white specks; body blackish; head grey. Found on the Bur-dock near the ferry at Batterley in pease season.

SECT. VIII. SCARABÆI SEMI-VAGINATI seu STAPHYLINI, or TURN-TAILS. The sheaths short, as if cut, and rarely cover half the body; run swift, and if molested, turn up their tails.

46. *Staphylinus maximus niger longissimus*. Long, Black Turn-Tail. *Staphylinus major totus niger* Ray Hist. Insect. 109. 1. *Staphylinus* 1. Moffet. 197. fig. 1. 2. *Scarabæus majusculus niger*, forcipibus infestis Lister Ray H. Inf. tit. 26. It is about an inch and quarter long, and a quarter broad; the head, shoulders, and sheath, much the same length; and all three make but one half of its length: its bugle-jointed horns are taper.

47. *Staphylinus major brevis niger*. Short, Black Turn-Tail. *Staphylinus* Moffet. p. 197. fig. 3. This is short in comparison to the last, viz. not quite an inch, but very near full as broad; otherwise not unlike: pretty common near path-ways. When you catch these, they are very waspish, and throw out, on each side their tail, a white egg-like bladder.

48. *Staphylinus major lucens, vaginis & circulis lanosis*. Woolly-sheathed Turn-Tail. Its full length three quarters, some shorter, but one quarter broad; the head and shoulders of a shining jet; its belly (except the tip, which is black) of a pale hoary white, as is the lower half of its sheaths: their horns are close jointed, and thickest towards the ends.

49. *Staphylinus medius niger, vaginis castaneis*. Chestnut-sheathed Turn-Tail. The head, back, and naked body black; the sheaths chestnut, as are its legs, with horns like the last.

50. *Staphylinus medius velutinus fuscus*. Brown Velvet Turn-Tail. Its shoulders and sheaths velvety and brown, as is its naked body; its head hoary and changeable; a size less than the last. Found in March and April on Hampsted-Heath, in cow-dung, with the Bull-comber.

51. *Staphylinus parvus è Chalybeato succino cinctus*. Small Steel and Amber Turn-Tail. This small elegant insect is about three quarters of an inch long; its head, sheaths, and tail, steel; the rest, viz. its back and four joints of the body, amber.

52. *Forficula vulgaris* Gaz. tab. 74. fig. 5. The Ear-Wig. *Forficula five Auricularia* Moffet. 171. c. 27. fig. *Scarabæus subrufus caudâ furcatâ* Lister. Ray. H. Inf. 391. tit. 25. Very mischievous in gardens, particularly to July-flowers, and in the winter hide themselves under the bark of trees, &c.

CAP. III.—CIMICES, or BUGS.

Beetles, whose Wings are partly crusty, the rest transparent, the first on the Body, the last on the Tips: They are of various Shapes, and have generally a long Needle-like Snout, which they place betwixt their Legs under their Thorax.

1. *CIMEX* maximus Testudinarius rufus. Great Turtle Bug: half an inch long, and two thirds broad: it is reddish, with black shoulders, and differs from all the following in shape, being more round and turtle-like. Mr. Dandridge found this in a dry ditch near the Spaniards at Park-Gate, between Bishop's-Wood and the Heath.

2. *Cimex major ex toto fuscus*. Great Brown Bug. *Cimex* 2. Moffet. 174. fig. 3. 4. Wholly brown, with blunt shoulders; of the same size with the last.

3. *Cimex medius fuscus maculatus*. Middling Brown Bug. Much paler than the last, with delt, sides, and horns, speckled.

4. *Cimex medius rufus maculatus*. Middling Brown Bug; a size larger than the last; the ground reddish or copper-like, and speckled.

5. *Cimex major viridis immaculatus*. *Cimex* 1. Moffet. 174. fig. 1. 2. *Cimex sylvestris viridis* Ray Hist. Insect. p. 53. 1.

Great Green Bug. Wholly green: size of No. 2. The four last blunt-shouldered.

6. *Cimex major viridis cornutus*. Great Green Horn-Bug. Like the last, but horn-shouldered.

7. *Cimex cornutus major fuscus, maculatus*. Great Brown Horn-Bug, resembles No. 2. in shape and size; but the shoulders are horned, and the legs and delta-tip amber-coloured.

8. *Cimex cornutus major, è fulco cinereus, maculatus*. Great Pale Horn-Bug: shape and size with the three last; its side-sheaths grey; but delt and tip brown, the first saffron-spotted.

9. *Cimex cornutus medius cinereus, immaculatus*. Middling Grey Bug, differs from the last in being less, and its delt unspotted. N. B. These four have blunt black horns.

10. *Cimex marginatus fuscus major*. Great Brown Weltered Bug; about half an inch long, of a dead hair colour, the sides weltered: its wings lifted up discover the body of a fine orange, and above that black.

11. *Cimex marginatus fuscus, medius*. Middling Brown Weltered Bug: a degree less than the last, and much of the same colour.

12. *Cimex fuscus minor, margine anguloso*. Small Brown Weltered Bug: less than the last, and more weltered than the two last; its shoulders much pointed. N. B. These three last are very distinct from the foregoing, in having their bodies weltered, the first joints of their horns thick and strong, the next very slender and reflex, and tips somewhat clubbed. Most of these bugs are found about Hampsted, as in Cain and Bishop's-Wood, &c.

13. *Cimex oblongus nigricans Muscæ facie*. Black Fly-Bug; three quarters of an inch long: it is wholly blackish, and much of the shape of a fly; the whole wings seeming mostly membranaceous: its horns are long-jointed, rather resembling legs. Found in the spring, under a wall beyond Acton.

14. *Cimex oblongus nigricans, margine maculatâ*. Spotted, Black Fly-Bug: shorter and smaller than the last; its horns many-jointed and mottled with black and white, as are its legs; the tips of its wings more impressed than the last; its edges or sides tipped with yellow. Found very frequently in the flowers of Golden-rod, in Cain-Wood.

15. *Cimex oblongus virescens*. Greenish Bug-Kin G. N. Cat. Angl. 64. *Cimexoides virescens* Gaz. 50. 10. & C. In length about $\frac{3}{4}$ of an inch; of a pale green, with long slender horns; the body blackish. Brompton-Park, Sept. 1696.

16. *Cimex oblongus perangustus fulvus*. Marbled Bug-Kin G. N. Cat. Angl. 65. *Cimexoides è rufo flavescens* Gaz. 50. 11. Body slender, resembling a tipula; its back and shoulders black, mottled with pale yellow; the crusty part of its wings buff.

17. *Cimex oblongus venustè maculatus & striatus*. Gaz. 62. fig. 1. Fine-streaked Bug-Kin. This is a gaudy insect; its sheaths finely streaked with black; the tips and delt buff; its horns long-jointed and slender. Found by Mr. Dandridge in the spring, with the next, on the shrubs in Sir William Hickes's wood near Stratford.

18. *Cimex oblongus, corpore fulvo semivaginato*. Short-sheathed Bug-Kin. The body of this is buff speckled with black; its wings, or rather sheaths, are very short, resembling those of small grass-hoppers: this is grosser bodied than the last, and may be male and female.

19. *Cimex ruber, atro bimaculato* Gaz. 62. 2. Henbane Bug. *Cimex sylv. minor corpore angusto oblongo, colore desuper rubro, nigris maculis picto* Ray Hist. Insector. p. 55. *Cimex miniatus, nigris maculis notatus, Hyoseyamo ferè gaudens* Lister. tit. 39. Ray, p. 397. This is an elegant scarlet bug, spotted and marked with black. Found on Henbane.

20. *Cimex minor languidus bimaculatus*. Double-spotted Wane-Bug. Spotted in the midst of its sheaths like the last; but the whole body is much less, and of a faint wane colour. Found in the umbels of Cow-parfnip towards Hornsey.

21. *Cimex minor nigricans, maculis rubris*. Red-spotted Black Bug; smaller than the last; its legs, horns, and body black, except the edges of its wings and tips, which, with its delt, are reddish.

22. *Cimex parvus è cinereo nigro marmoratus*. Small Grey Mottled Bug. An elegant little insect, marbled with black and grey. Found in Cain-Wood, about August.

23. *Cimex parvus niger oblongus*. Small Black Bug-Kin; more than half an inch long, and wholly black. Found early in the spring, near Park-Gate in Bishop's Wood.

24. *Cimex minor rotundus niger*. Small Black Bug; pretty round and flat, wholly black; its horns broad-jointed.

25. *Cimex minor rotundus niger, ano albo*. Small Black Bug with a white Rump: same size and shape with the last, and wholly black, except its under wings and sheath-tips, which are transparent.

26. *Cimex minor rotundus niger, biguttulis albis*. Small Double-speckled Black Bug. Less than the last, and all black, except a white speck in the midst of each sheath. Mr. Dandridge found this early in the spring, on a dry bank near Islington.

27. *Cimex minor rotundus niger, signaturis albis*. Small White-marked Black Bug. A shining black, marked and spotted with white, as are sometimes its shoulders in the middle, as well as edges.

28. *Cimex rotundus niger parvus, signaturis albis*. *Cimex niger nostras albo maculatus* Gaz. 14. 7. *Cimex sylv. parvus, corpore rotundiore, colore nigro splendente, maculis albis picto* Ray Hist. Insect. p. 54. 5. Magpye Bug. *Cimex niger maculis candidis notatus* Lister. Ray, p. 396. 37. Resembles the last, but smaller. These are often met with in the spring on sunny banks.

29. *Cimex*.

29. *Cimex rotundus minor Chalybeatus, trimaculatus*. *Cimex* sylv. cœrulescens paulo reliquis minor, & magis depressus D. Willoughby, Ray H. Insect. p. 54. 6. Magpye Steel-Bug: Larger than the last, of a steel hue, with a white line along the shoulders: the tip of its delt and each sheath has a white spot, which three stand in a line.

30. *Cimex rotundus minor Chalybeatus, è rufo trimaculatus*. *Cimex* 7 F. Willoughby, Ray Hist. Insect. p. 54. 7. Magpye Steel-Bug, with red spots: somewhat like the last, but has a reddish cast, with its three spots, in some lighter, in others deeper red.

31. *Ricinus lectularius rotundus*. The Round Bed-Tick. These are of a chestnut brown, very round and flat, about the circumference of a spangle. Franciscus Spoletus, a learned physician of Padua, told me these were a great sudorifick.

32. *Ricinus lectularius oblongus*. The Oval Bed-Tick. Like the last, but more oval. These may be male and female.

33. *Ricinus nemorosus fuscus*. Brown Wood-Tick. Found frequently by Mr. Dandridge in Cain-Wood, creeping up oak-trees. These are very troublesome to human bodies, by fastening their head into the skin.

34. *Ricinus nemorosus parvus rubicundus*. Small Red Wood-Tick. Found with the last, but differs in being less, and the lower part inclining to a deep red. N. B. These four last Ticks differ from the common Bugs, in being without wings, and having very compressed bodies.

CAP. IV. Notonectæ, Scorpiones aq. Tipulæ, &c.

BOAT-FLIES, WATER-SCORPIONS, SPIDERS, &c.

1. *Notonecta* è nigro pallidior mixta vulgaris, Gaz. 72. 6. *Notonecta* primæ Mouffeti similis, si non idem F. W. Ray H. Insect. 58. *Apis fera aquatica* Aldr. Insect. p. 192. fig. propa & supina. The Common Party-coloured Boat-Fly, Hoefnagel, tab. 12. fig. 17. Near $\frac{1}{4}$ of an inch long; eyes large and black, as are part of its sheaths and delt; the rest yellowish: the hinder legs in all these are very long and feathery, standing much backward, and used as oars in swimming. These are pretty frequent in most standing ponds.

2. *Notonecta vaginis è luteo nigricante*. The Streaked Pale Boat-Fly. This differs from the last, in being a size less, and the sheaths almost wholly pale.

3. *Notonecta vaginis flavicantibus* Gaz. 75. 5. The Pale Boat-Fly. The sheath all yellow, without any streak of black, as in the last. These are ridge-backed, and their bodies black. Found with the next.

4. *Notonecta compressa vulgaris nigricans*. *Cimex* aquat. figuræ longioris F. W. Ray H. Insect. 57. Common Boat-Bug. These are of all sizes, from half an inch long to half a quarter, and even copulate as well as the bigger. They are narrower than the last, and flatter; very common in all ponds, and at all seasons.

5. *Notonecta compressa lata vulg. nigricans*. *Cimex* brevis & ferè rotundus nigricans F. W. Ray Inf. 57. Common Broad Boat-Bug. This is more than half an inch long, and near two-thirds as broad; in shape resembling some of our middling Water-Beetles. What is remarkable in this, is its two fore-feet have each a short claw ending in a crooked thorn, and a sharp *proboscis*, with which it endeavours to sting when taken. These are frequently found with the last, though not quite so common.

6. *Scorpio aquat. bipilis vulg.* Gaz. 74. 4. *Scorpio palustris ad Cimices referendus* F. W. Ray Inf. 58. Lift. Scarab. tab. 4. fig. 3. *Scorpio palustris* Moffet. p. 321. fig. 2. The figure of this gives you a quicker idea than a description can: its whole surface of a dirty colour, but the body under its wings pure scarlet: it has two long bristles at its tail: the fore-feet, or claws, resemble those of a Scorpion, whence its name. I have met with these creeping under water, at the sides of ponds.

7. *Scorpio aq. bipilis, corpore flavescente*. *Scorpio palustris* Moffet. fig. 2. Pale Water-Scorpion. The body of this (under its wings) being pale, distinguishes it from the last. Found in the ponds in Cain Wood.

8. *Scorpio aq. nigricans, caudâ cuspidatâ*. *Scorpio palustris* Moffet. fig. 3. The lower part of this seems to be one wingless crust, terminating in a thorn-like point. These are dark or sad brown.

9. *Scorpio aquat. caudâ cuspidatâ minor*. Small Sharp-tailed Water-Scorpion. Of the same shape, but not half so big as the last. It is like a dead leaf, or phillamot colour. Mr. Dandridge found this and the last in the lower ponds before you reach Cain-Wood.

10. *Tipula maxima & longissima*. The Long Water Scorpion-Spider. This very elegant insect is about one inch and half from its eyes to the tail; and the two bristles from thence above an inch: its legs are of the same make with the following kinds, viz. Long, Smooth, and Slender: the horns, which are also an inch long, are very remarkable; its first joints next the head are perfectly round and even; at the end of these are two others close together, the first bending the middle joint backwards, the other inwards: about half an inch farther is a small prickle, into which the sharp tips cling, to hold fast their prey: the outward sheaths are of a dark grey; its under wings transparent and blueish, but the body under them of a curious orange. Mr. Dandridge takes notice, these run not on the surface of the water, as the following, but, like the Water-Scorpions, are found at the bottom. These he observed in a pond beyond Hornsey-Wood.

11. *Tipula impennis corpore crassiore*. Wingless Thick Water-

Spider. Somewhat more than half an inch long; the head and tail conical, viz. pointed at each end, and thickest in the middle; its fore-legs much the thickest and shortest, the middle a very little longer than the hindmost, and all smooth like those in gnats; its horns also long and slender jointed, from the middle to the tips.

12. *Tipula impennis corpore tereti*. Wingless Slender Water-Spider. Very like the last, but taperer from the middle of the body to the tail. Both these are void of membranaceous wings: this is covered by the last, therefore supposed to be male and female. Mr. Dandridge found these at a sluice of the New River, in a green lane near Hornsey-Wood.

13. *Tipula nigricans pedibus longioribus*. Long-legged Water-Spider. This differs from the two last, in having wings, and being somewhat longer legged. Found in the New River, near Canbury-House.

14. *Tipula nigricans vulgarissima*. *Tipula* 1 Lift. Scarabeor. tab. 4. Common Water-Spider. Very like the last, but something less, with shorter legs. In most ponds, ditches, and slow running waters:

15. *Tipula Londinensis angustissima* Gaz. 9. 12. Narrow Water-Spider, G. N. Cat. Angl. 61. Near half an inch long, and very slender. I have observed this in a pond at Green-street, between Kentish-Town and Highgate.

16. *Tipula minor perbrevis*. Rumpless Water-Spider. The hinder legs of these being joined so near the end of its body, that it seems to be cut in two, or to have no tail.

17. *Tipula minor Araneoides*, 2 Lister Scarab. tab. 4. Golden Water-Spider. *Tipula Hampstedienfis brevior, ex croceo variegata* Gaz. 9. 13. Body thick and short; spotted with orange; covered neither with wings or sheath. Found in ditches about Bell-size.

CAP. V. SCARABÆI MISCELLANEI

Are such as are Heteroclite, or have been omitted.

1. *Cochinella major purpurea*. Glanvill's Purple Cochineel. This is somewhat less than the next, of a fine purple colour.

2. *Cochinella major viridis oblonga*. Glanvill's Great Green Cochineel. The surface of this is wholly shining and pounced; its horns bugled and slender; the body near half an inch long, and a quarter broad. This and the last were first discovered, and given me, by the late Mrs. Glanvill.

3. *Cochinella media è cupreo viridis*. Copper-Green Cochineel. Not half so big as the last; its head green, and sheaths of an elegant changeable copper and green lustre, pounced; the horns bugled. Mr. Dandridge found this on Box-Hill, the end of May.

4. *Cochinella minor viridis, corpore crasso*. Gros Green Cochineel. The body is thick and short, about $\frac{1}{4}$ of an inch long, wholly green, and pounced: it has a particular wart-like knob in the Delta place.

5. *Cochinella minor viridi aureus, corpore crasso*. Gros Green-Gold Cochineel. Differs nothing from the last, but in having a slight golden lustre. Found both in Cain-Wood.

6. *Scarabæus minor viridis* Musci Petiv. 9. fig. Small Green Dock-Beetle. Found on the common Dock, and copulate about Midsummer.

7. *Scarabæolus Chalybeatus*. Small Steel-Beetle. A degree less than the last, and of a shining blue, like polished steel.

8. *Scarabæolus aureus capite lineisque nigris*, Gaz. 31. 4. Black-lined Golden Beetle, G. N. Cat. Angl. 98. Common on hazles, &c. in Cain-Wood.

9. *Scarabæolus oblongus niger domesticus, fasciâ latâ cinerea*. Small Grey-girdled House-Beetle. The midst of the body has a broad grey somewhat-speckled list; whereas the head and tail are black. Frequent in our dwelling-houses.

10. *Scarabæolus oblong. domesticus niger, ventre albo*. Mealy-bellied House-Beetle. Of the size of the last: the sides of its head are hoary, its whole belly of a mealy white, but black above. It is often found amongst flour.

11. *Scarabæus oblongus minor vespoides*. Dandridge's small Red-shouldered Wasp-Beetle. Its shoulders and upper part of the sheath reddish; the rest with its head black; two white lists cross the sheaths. Mr. Dandridge found this elegant beetle on the rails of a gate on the New River near Newington Green.

12. *Scarabæus parvus niger albo fasciatus & maculatus*. Small Speckled Wasp-Beetle. The ground of this is black, double-listed, with white waves: it has two eye-like specks on each side the head, with a smaller in the middle: Not half the size of the last.

13. *Scarabæus minor nigricans asper*. Small Black Rough Beetle. The back and sheaths blackish, ribbed and speckle-warted, near the size of a horse-bean. Found by Mr. Dandridge on Hampsted Heath.

14. *Monachus minor nigricans punctatus*. Small Pounced Black Monk. Much less than the last: its sheaths seem pounced with small warts.

15. *Scarabæus minor ovalis fuscus sericeus*. Brown Velvet Egg-Beetle. This is soft, shining, brown with blackish specks: when taken it lies as dead, and shrinks up its legs into their proper cavities, so that you cannot see them till again expanded. I first observed this about Epsom.

16. *Scarabæus ferricornu Aurantiacus*. Orange Saw-Horn. Its head, shoulder, and sheaths, are all orange; the legs and horns black; the last notched only on one side, like a saw; the body near half an inch long. Found amongst Nettles and Brambles.

17. *Scarabæus ferricornu niger*. Black Saw-Horn. Not half the size of the last, and wholly black, except between its head and shoulders, which is orange.

18. *Buprestis minor viridis*, dorso castaneo.

19. *Buprestis parvus viridis*, vaginis ad dorsum rufis, extremis latibus coerulescentibus.

20. *Buprestis parvus aurantiacus*, nigro cruciatus. Found by Mr. Dandridge in the sand-pits on Woolwich Heath. N. B. These three last are better conveyed to the idea by figure than description.

De BOMBYLIIS ANGLICANIS.

I. HUMBLE-BEES with a Single Circle about their Head or Shoulder.

1. *Bombylius niger major*, luteâ fasciâ, ano albente. This is one of the largest size, and all black, except a yellow ring about its head, and white rump.

2. *Id. cruribus luteis*. Its dirty legs are very particular, and distinguish it from the last.

3. *Bombylius niger medius*, fasciâ luteâ, ano albente. Very like the first, but somewhat less.

4. *Bombylius niger medius*, fasciâ angustâ, ano latè croceo. About the size of the last; a large part of the back and shoulders black.

5. *Id. minor*. Like the last, but not above half so big; its tail somewhat paler. Both these have very narrow girdles, and remarkable yellow faces.

II. HUMBLE-BEES with Double Circles, one round their Head, the other about their Back.

6. *Bombylius niger major*, bifasciis flavescens, ano albido. Much the size of No. 1. but has a broader body and two girdles.

7. *Id. minor*. Differs from the last only in being three times less.

8. *Id. minor*, bifasciis luteis latis, ano croceo. This has much broader yellow circles, with a pale face, and orange tail.

9. *Id. medius*, ano ex croceo & albo cincto. Near as big again as the last; the lower part of the shoulder black, as is the girdle next the rump: between these is a broad changeable list of pale yellow.

10. *Bombylius niger major*, bifasciis & ano croceis. Very like No. 6. but its girdles of a deeper yellow, and rump pale yellow.

III. HUMBLE-BEES with Double Circles, the lower generally partaking both of the Shoulder and Back.

11. *Bombylius niger major*, fasciis bipartitis, ano albido. Of the size and make with the last, and chiefly differs in having a white rump: its lower girdle partakes both of the shoulders and back, as the following mostly do.

12. *Id. medius*. Like the last, but not half so big.

13. *Id. minor*. Like the last, but much less; its lower circle very small.

14. *Id. medius flavescens*. The shoulders and upper part of the back are mostly yellow, as is its face; the rump white.

15. *Id. medius albescens*. About the size of the last, but much paler, and somewhat longer horns, with a hairy whitish face.

16. *Id. medius albescens*, facie atrâ nitente. Differs from the last, chiefly in having a black shining head, and hairy face of the same colour, with longish horns.

17. *Id. medius albescens*, ano flavescens. The rump yellowish, its face whitish, and is a size larger than the last.

IV. HUMBLE-BEES without Circles, all or mostly black.

18. *Bombylius medius*, ex toto niger. The body hairy and coal-black, of a middle size; the wings somewhat smoaky.

19. *Bombylius medius*, ex toto niger, nisi cruribus posterioribus croceis. Like the last, but a degree less, and somewhat narrower bodied. What is particular in this is, the outer sides of its hinder legs are of a rusty colour; all the rest black.

20. *Bombylius niger major*, ano croceo. This is next to the largest size, and all black, except the rump, which is orange.

21. *Id. medius*. Very like the last, but less.

22. *Id. major*, alis fumosis, ano ferrugineo. Differs from No. 20. in having smoaky wings, and the rump paler.

23. *Bombylius niger parvus*, ano croceo. Like No. 20. but not a quarter so big.

24. *Bombylius niger medius*, ano pallente. Is more than as big again as the last, with a pale rump.

V. HUMBLE-BEES with Long Bodies.

25. *Bombylius oblongus niger*, ano croceo. The head and upper part of the body are wholly black; the lower, or rump, of a rusty tawny.

26. *Bombylius oblongus bifasciatus*, ano pallente. About the size of the last; the circles cross its head and shoulders pale.

27. *Hive Bees*, governed by a Queen, most beautiful, and larger than a Drone. No hive can subsist without her.

The Drones, viz. males, never had a sting, get no honey, but hatch the brood: all are so governed, and die in about a year.

De ANIMALIBUS Crustaceis, Echinatis, Stellatisque Britannicis.

1. *Astacus Officinarum* Dale Pharmac. Supplem. pag. 338. xx. vulgaris major. The Lobster.

2. *Astacus fluviatilis* Dal. Pharm. 558. xii. vulg. minor. The Craw-Fish.

3. *Locusta major marina*. The Long-Oyster, or Thornback-Lobster. These come sometimes amongst the Lobsters and Crabs.

4. } rostrata major. The Prawn.
5. } Offic. Dal. Sup. 338. xxi. rostrata minor. The Shrimp.

6. } *Squilla* } lata major. The Great Bunting.

7. } } lata minor. The Small Bunting.

8. } fluviatilis parva. The River-Shrimp.

9. } lacustris minima, dorso nutante Gaz. 21. 7. Cat. 3. Baker's Pond-Squill.

10. *Cancellus vulg. Buccinis* degens. The Common Whelk-Crab. Common about Pool in Dorsetshire.

11. *Cancer marinus maximus verrucosus*. *Pagurus Venetorum*. An *Pagurus Rondelet*, Pisc. 561. fig. 7. The Great Spider-Crab.

12. *Cancer marinus parvus verrucosus*. The Small Spider-Crab. This and the last off of the Isle of Wight.

13. *Cancer* Offic. Dale Ph. 558. xiii. marinus max. edulis. The Great Edible Sea-Crab.

14. *Cancer fluviatilis* Offic. Dale 559. xiv. c. 34. fig. Id. Gallic. 153. fluv. vulg. edulis. The Common River-Crab.

15. *Cancer marinus*, digitis hirsutis. The Spanish Crab, found at Deal.

16. *Cancer minimus Musculus* degens. C. parvus in alienis Testis vivens. The Poisonous Small Muscle-Crab, often found in those shells.

17. *Echinus marinus* Offic. Dale S. p. 339. xxiv. List. Hist. Animal. Angl. 163. fig. 18. A Sea-Urchin, Rond. p. 578. fig. Id. Gall. 414. Found alive on our sea-shores.

18. *Echinus nostras Sphatagus*. E. minor angulosus ex utraque parte compressus. Sea-Egg, List. H. An. Angl. app. 28. tab. 1. fig. 13. At Hartlepool, Huntly, &c.

19. *Echinus perexiguus* Gaz. 32. 10. Cat. 4. Sea Urchin-Egg.

20. *Astellus marinus nostras parvus*. Small Sea-Louse. I have found this sticking to stones, near Malden in Essex.

21. *Stellula Hibernica glabra* Gaz. 16. 8. Cat. 6. Lhwys. Small Donegal Sea-Star.

22. *Stella pentadactyla vulgatissima*. Common Five-Fingers.

23. *Stella pentadactyla echinata*. S. *Hibernica echinata* Gaz.

16. 6. Cat. 5. An S. pestinata? Irish Warty Five-Fingers.

24. *Stella pentadactyla radiis angustis echinatis*. S. *echinata*. Prickly Five-Fingers. Found with the two last about the Isle of Wight.

25. *Stella pentadactyla Cambro-Britannica purpurea*. Purple Welsh Five-Fingers. Found about Tenby in Pembrokehire.

26. *Stella pentadactyla lævis*, radiis teretibus. An. S. *lævis*? Rowel Five-Fingers. Found with the last.

27. *Stella decadactyla*, modiollo radiato. S. *decem radiatorum*. S. *decadactyloides* Col. Bearded Ten-Fingers. Found about Penzance in Cornwall.

28. *Stella Solaris duodecim radiis*. An. S. *tredecim radiatorum* Clusii Exot. 144. resembling this? Twelve-Fingers. Found about Tenby, &c.

De PISCIBUS Fluviatilibus Anglicanis.

FRESH-WATER FISHES found in our Lakes, Meres, Pools, Ponds, Brooks, or Rivers.

SECT. I. PISCES ANADROMI, or Sea-Fish that come up Rivers at certain Seasons.

1. **T**HE Salmon. *Salmo vulgaris*. Salaux Grec. *Salmo Lat.* Saulmon Gallic. Minsh Hiss. It is said to receive its name à *Saltando*, from leaping; others, à *Sale*, it being so frequently pickled: yet many countries call them by different names, according to their age or season; as, in Switzerland and on the Rhine, from the spring to St. James's day, they call it Salm; and from thence to St. Andrew's, the end of November, Lachs: In Yorkshire, the first year they are called a Smelt, Samlet, or Bradlin; the next, Sprods; the third, Morts; the fourth, Fork-Tails; and the fifth, Half-Fish, being then half grown, though some come to full growth in less time, and are then called Salmons, some of which have been said to weigh above pounds.

They copulate belly to belly in fresh rivers, whither they come before autumn to spawn: it is said they cover their eggs in sand, and when hatched they grow incredible in a month's time, and after that they carry them to sea.

In Gloucester and Worcester rivers they are very plenty, loving large swift waters, which ebb and flow: Thames has a share of them.

They feed on dew-worms, minnows, loaches, and other little fish: his best ground-bait is a great garden or lob-worm, and sometimes oak-worms, dub-flies, cod and clap-baits: he also taketh the artificial fly; but he must be large, great-winged, with a long tail, resembling the adderbolt or dragon-fly, which he will also take; but you must use a trowl, (as for the pike) for being a strong fish, he will hazard your line, except you give him length. His chiefest season of biting is from May to August, at nine in the morning and three in the afternoon, in a clear water, and when the wind bloweth against the stream. It is a wonderful sweet fish, of extraordinary nourishment, and a great restorative in consumptions.

2. The Shad. *Alosa*, vulgaris; *Alosa*, *Clupea*, vel *Triffa*, Lat. *Chiepa*, Italis; *Clofe*, Gallis; at Bourdeaux, *Coulac*; *Laccia*, at Rome; in Spain, *Saboga*; and by the Dutch, *Meyvis*: by the Greeks, *Thrissa* a *tricon Capillus*, because its bones are small like hair, or the bearded awns in wheat and other corn.

It resembles a herring, but is much broader and larger, viz. a cubit long, and four inches broad: between its gills and back-fin it has four round black spots: its scales are large, fall easily off, and are speckled about the edges with black.

These come from the sea into the Severn in March and April, fat and full of spawn; but in the month after, return lean and shotten.

Albertus affirms, they are pleased with the tinkling of small bells, and are allured into the nets (especially in the night) by tying them to their sides above water; which Rondeletius also confirms; and, if so, it is an argument fishes can hear.

They love red worms of all sorts, wasps and gentles; in their guts sea-fleas have been found.

It is a good fish, but so full of bones, that they are dangerously eaten without great care. Some assert their meat is hypnotick.

3. The *Smelt*. *Eperlanus*. *Rolebein* Germ. *Spirinchus* Schonfeld. It is called *Viola* from its violet or sweet smell, and by us therefore a *Smelt*; and *Eperlanus*, quasi *Perlatus*, from its fine pearly shining lustre.

They are frequently caught with nets in the Thames above bridge, and are found in other great rivers: they generally lie at the tails of vessels, and are angled for with a gentle at half-water; but the bait which exceeds all others, is another smelt cut into very small pieces, which will give you sport to admiration.

They are a fine, light, and easy-digested fish, and best in winter when full of spawn.

4. The *Sturgeon*. *Sturio*. Some call this also *Silurus*, though Schwenckfeld and Francius make them two. Others term it *Acipenser* both in Latin and Greek. *Esturgeon* Gallis; *Stoer* Germ. *Sulla* Hispan. *Porcelletto* Italis.

Sturio, Julius Cæsar Scaliger affirms, is a Gothick word, and brought by them into other parts of Europe; which Olaus Wormius also believes, because *Stur* or *Steer* signifies Large in the Danish language.

This fish being rarely caught about London, I shall therefore give you a particular description of it.

Its body long and five-square, with as many rows of pentangular bony scales: those on his back rise highest, and are between 12 and 15 in number, reaching only to his fin: the upper-side line runs quite to his tail, and are about 30; the lower line has much the same number with those on his back: all these are white in the middle, and armed with strong, crooked, short thorns. His belly flat and smooth; his snout broad, long, thin and pointed, with small eyes in proportion to his bulk, as is his mouth, which is without teeth or jaws, whence it is supposed to live by suction. His tail forked; the upper part much the larger and strongest.

The fishermen in Silesia observe a greater and a less; one with a blunt snout, another with a sharp one.

They breed in the sea, but come for refreshment into large rivers about March; are rarely or never taken with hooks, but in nets; their nourishment being mud, excrements, and perhaps slimy animals like snails, though in their entrails only froth and jelly has been yet observed. Mr. Rogers, fishmonger, shewed me one caught in the Trent, which weighed 180 pounds, and was $7\frac{1}{2}$ feet long.

It is rarely eat fresh, but esteemed as a great dainty pickled, which the Dutch and Germans do, cutting them into jowls and rands, barrelled up with vinegar, Rhenish wine, and sea-water, and so transport them to us in cags.

Petrus Forestus, in his 20th Book, Observation 12. commends the bones of this fish in a rheumatism: it is also said to dispel the cholick.

Of its roes in Muscovy are made Caviare, or Caveer, by freeing them from their strings, and washing with wine or vinegar, then spreading it on a board to dry: after this they salt it in a vessel, mixing it well and mashing it only with their hands: they then put it into a stean, or jar, with a hole at the bottom to let out its moisture or pickle, covering it very close, and pressing it well down.

This jelly, or soapy mass, is accounted very nourishing and a great provocative, by increasing feed and exciting venery.

SECT. II. PISCES LACUSTRES, viz. Fish only found in Lakes and Meres.

5. The *Welsb* Charr. *Charra* Cambro-Britannica. This fish in Wales they call *Torgoch*, which signifies a red belly, which it has.

Mr. Ray took this to be the same with the next; and since Mr. Willoughby, in his Accurate History of Fishes, has given a short description of this very fish, with some other particulars relating to it, I here briefly translate them, that such who reside in those parts, may oblige the publick by clearing this doubt.

This *Torgoch* is of a trout-shape, has a brown back, with nine dark broad spaces on the sides, above the spotted line, with as many others of white between; every where sprinkled with dark yellow spots: the first ribs of his belly and back-tail fins are of a beautiful white.

In Carnarvonshire it is found in the following lakes, viz. Lanberis, Llin-Umber, Festiniog, Bettus, and in another near Caflageddor in Merionethshire, where they are smaller and earlier caught, viz. in Oct. and the rest the following months, as Nov. Dec. &c. so that the second lake-fishing commences when the first leaves off.

They live in shoals, and are taken in trammel-nets baited with

proper food and cast into the water, where they leave them whole days and nights, for the fish to come voluntary in; which it is said they will only do at these seasons, and not in the summer; though they then repair to the shallows, where they come to breed, and are frequently seen basking on the surface of the lakes.

6. The *Red Charr*. *Charra Rubra*. So called from the colour of its belly at Winander Mere in Westmoreland, where every winter they are plentifully taken. The fishermen there suppose these to be the female of the next; which there is little reason to believe, this being twice as big as it, and differs also in having its flesh partly white, with pale speckles on its back; whereas the other has red flesh and black specks.

7. The *Gelt* or *Gilt Charr*. *Charra alba*. Supposedly so called from its silvery gilt sides and belly; they are more esteemed than the last, and accounted the greater dainty. It is said they frequently float on the top of the water in summer.

8. The *Guinard*. This is found in the lake of Bala, in Merionethshire in Wales; as also in Hull's Water, a lake five miles from Pereth in Cumberland, where they call it the Schelly.

SECT. III. PISCES FLUVIATILES LÆVES. Such as live in standing Pools and Ponds, and have no Scales.

9. The *Bullhead*, *Gull*, or *Miller's Thumb*. *Gobio Capitatus*; *Bot Cremonensis*; *Cop vel Kap Carinthijs*; *Grobbe* Germ. *Gropp Helvetijs*; *Keuling*, *Kulheit*, & *Kaulheupt*, *Saxonibus* & *Misensis*; *Mul alicubus*; *Tholimam Tridentinis*.

It takes its name from the largeness of its head, which is very big, flat, and broad.

In length it rarely exceeds six inches; his mouth large and round, with small fily teeth; little eyes, with golden circles; a yellowish back, with three or four black rows: each gill-fin has three bristly nerves, round and finely notched: about the midit of his belly he has two others, somewhat long, small and whitish, with four nerves, the first largest, the second shorter: between his vent and tail is another fin of twelve veins, and two on his back; that next his head shortest, with five nerves, generally blackish with a red edge: another fin, of seventeen ribs, reaches almost to the tail. At the opening of each gill he has a crooked thorn, which turns upwards: his tail round and finned, with eleven or twelve branchy ribs. The female, when ready to spawn, is vastly big, and carries her eggs in two black bags, resembling dugs. Frequently found at the bottom of pebbly rivers, where they commonly hide under the stones. Taken with cadus's and other water insects; but his principal bait is small red worms. It is affirmed that they devour one the other.

10. The *Eel*. *Anguilla vulgaris*. So called (*ab Anguis similitudine*) from its likeness to a Snake. It has been a great controversy, whether the generation of this animal is equivocal or univocal; and, though rarely observed, yet the learned Doctor Charleton in his *Exercitationes* proves the last, and says, he is satisfied they are viviparous, by several dissections he has made; and that he once took eleven young ones out of the female's belly, whose head is less, with a sharp snout; the male's bigger, with a flat one. They are said to live seven or eight years, and out of water five or six days; but not so long with a south wind as a north. Their flesh is sweet, and yields great nourishment. Its fat takes away discolourings in the skin from blows, &c. cures baldness, by causing the hair to grow; and eases the piles: being dropped into the ears, it helps old pains and deafness. The livers, with bayberries and myrrh, have been successfully given to cause easy labour.

11. The *Eel-Pout*, or *Burbot*. *Mustela fluviatilis*. This fish being rarely met with, but in the arches and eddies of the rivers Trent and Tame, we shall therefore give you here a particular description of it, viz. From one to twenty inches long, and from the fore-fin on the back to the belly four inches. This was of a greenish ash colour, powdered all over with small round yellowish spots; the iris of the eye of a blueish colour; having two small *cirri*, or wattles, issuing out of the nose, near the mouth, and one larger out of the jaw; and four fins near the gills; the two smaller placed foremost, and the larger hindmost; with a strait line running from the upper part of the gills to the setting-on of the tail; having also under the belly a fin reaching from the vent almost to the tail, with another on the back somewhat longer, and a fore-fin preceding it; the tail roundish, and not at all forked. His bait is a well-scoured red-worm, or, what tempts him more, a gudgeon.

12. *Elvers*. A small sort of Eels, or Congers, found in the Severn.

13. A *Stone Grig*. So called in Hertfordshire. Dr. Merret separates this from the next, whose difference we should therefore gladly compare.

14. The *Isis Lamperna*, because found in that river near Oxford, where they call it a *Pride*, is thus described: his mouth is cut neither perpendicularly downward, nor transversely, but hollowed as it were between two cheeks, without an under jaw, after the manner of leeches: it has on each side seven holes, that supply the place of gills; and on the top of its head one, not exactly betwixt the eyes, which are very little, but more forward in the extremity of the head, near the upper lip. It is streaked from the top of its back down to the small line on its belly, which reaches from its mouth to the vent. Its tail ends spear-like, with a small fin near it on the back. It moves by a winding impulse of its body, without the help of any other fins but those on the tail.

15. The *Loche*. *Cobites minor*, *barbatula*. These are frequent-

ly caught in the New River, by every common angler, and by them called Stone Loches.

16. The *Minim*, *Minow*, or *Pink*. *Phoxinus varius*. So well known in all rills, rivulets, and small turns of water, that it is needless to describe it, or tell you that with a bit of a worm or brandlin you may easily catch them.

17. The *Salmon Peal*. *Salmerinus*. From the redness of its meat, and perhaps from its species. These are so plenty in some rivers in Wales, that they often give them to their hogs.

18. The *Prickle-Back*. *Pungitius dorso aculeato*. Called Banstickles, Sharpings, or Stickle-Backs, from its six or more sharp prickles on its back, which are as a defence from being preyed on.

19. The *Prickle-Belly*. *Pungitius utrinque aculeatus*. Though this, without distinction, by the vulgar is called by all the titles of the last, yet it manifestly differs in having only three prickles on its back, and as many on its belly. These two or three last are the common angling-sport of school-boys.

De COCHLEIS Terrestribus ac Fluviatilibus Britannicis.

1. *Cochlea maxima Pomatia* dicta Musei Petiver. 12.
2. *Cochlea Hortensis* vulgaris Mus. Pet. 13.
3. *Cochlea Hort.* unicolor, umbilico parvo Gaz. N. tab. 50. fig. 14.
4. *Cochlea vulg.* testâ variegatâ M. P. 14. Gaz. 92. 9.
5. *Cochlea vulg.* ex toto flavescens Gaz. 91. 9.
6. *Cochlea vulg.* flavescens fasciâ singulari Gaz. 91. 10.
7. *Cochlea vulg.* ex toto carnea Gaz. 91. 11.
8. *Cochlea vulg.* carnea, fasciâ singulari Gaz. 91. 12.
9. *Cochlea vulg.* omnino fusca Gaz. 92. 10.
10. *Cochlea palustris* marmorata, Mus. Pet. 15.
11. *Cochlea terrestris* turbinata & striata Mus. Pet. 16.
12. *Cochleola alba* fasciata Cantabrigienfis Gaz. 17. 6.
13. *Planorbis terrestris*, &c. acie acutâ Mus. P. 734. Gaz. 92. 11.
14. *Planorbis terr.* fasciata acie rotundâ Gaz. 93. 12.
15. *Planorbis terr.* minor, striis tenuissimis Gaz. 93. 13.
16. *Planorbis terr.* minor, lævis & lucida Gaz. 93. 14.
17. *Planorbis hort.* minima, pulchrè striata Gaz. 31. 5.
18. } heterostrophon oblongum majus.
19. } heterostr. oblongum minus, &c. M. P. 703.
20. } *Buccinulum* oblongum *Avenaceum* Gaz. 30. 7.
21. } minimum *Avenaceum*.
22. } minimum ovale Gaz. 36. 6.

COCHLEÆ FLUVIATILES.

23. } *Cochlea fluviat.* vivipara *Londinensis* Mus. P. 814.
24. } vivipara *Cantabrigienfis* Mus. P. 815.
25. } gyris altè incisâ Gaz. 18. 2.
26. } oblonga Gaz. 18. 8.
27. } *Buccinum* oblongum majus Mus. Pet. 805.
28. } oblongum minus Mus. Pet. 806.
29. } *fluviat. nostras* breve, ore patulo Mus. Pet. 807.
30. } testâ prætenui fragili Mus. Pet. 808.
31. } *Buccinulum fluviat. heterostrophon* Gaz. 10. 8.
32. } breve.
33. *Nerita Thamenfis* exigua reticulatim variegata Mus. P. 718. Gaz. 91. 3.
34. } major Gaz. 92. 5.
35. } minor Gaz. 92. 6.
36. } *Planorbis fluvi.* minor, acie acutâ Gaz. 10. 11.
37. } minima, acie acutâ Gaz. 92. 7.
38. } minima, margine rotundâ Gaz. 92. 8.
39. } *Musculus fluviat.* maximus, tenuis.
40. } major, tenuis Gaz. 93. 8.
41. } angustus, crassus Gaz. 93. 9.
42. *Pectunculus fluviat. nostras* Nuciformis Mus. Pet. 831.

De COCHLEIS Marinis Britannicis.

1. *Auris marina Anglica* Musei Pet. 801. The Sea-Ear, or Norman Shell.
2. *Balanus Anatifera* Mus. Pet. 802. Barnacle-Shell.
3. *Balanus max.* ore patulo M. P. 803. Great Ship-Barnacle.
4. *Balanus noster parvus vulg.* M. P. 804. Small Barnacle.
5. *Buccinulum maritimum*, minimum. Marsh Dwarf Winckle.
6. *Buccinulum medium*, crassum, ponderosum & læve. An List. Hist. Animal. Angl. p. 155. fig. 1. & Hist. Conchyl. l. 4. f. 14. fig. 4. tab. 913. ? Smooth Crab-Whelke.
7. *Buccinulum marit. nostras*, costis fasciatis & striatis M. P. 809. Crab-Whelke.
8. *Buccinulum marit. minus*, costis fasciatis & striatis. Small Crab-Whelke.
9. *Buccinum alb. min.* costis eleganter elatis M. P. 705. Small Winckle-Trope.
10. *Buccinum tessellatum minus*, areis Hortor. frequens. List. H. C. l. 4. f. 15. fig. 21. Small Grater-Whelke.
11. *Buccinum Cornubiense minus è Castaneo & albo fasciatum* Gaz. 18. 5. & Cat. 119. Dell's Grater-Winckle.
12. *Buccinum Dactyloides labrosum Edinburgense* G. N. 79. 6. An List. H. C. l. 4. f. 12. fig. 20. ? Broad-lipped Leith-Winckle.
13. *Cochlea marina*, mucrone Catenata, G. N. 93. 7. An List. H. A. A. 163. fig. 10. & List. H. C. l. 4. f. 5. fig. 19. ? The Humber Covin.
14. *Cochlea Orchad. max.* crassa, fasciata G. N. 36. 11. Cat.
118. Great Orchard Covin.

15. *Cochlea marit. nostras* crassa, fasciata M. Pet. 813. Scarborough Covins.

16. *Concha Veneris* exigua, alba, striata M. P. 17. Nuns.

17. *Nerita Anglic. marit. flavescens* vulgar. M. Pet. 716. Yellow-Nerit.

18. *Nerita Anglic. marit. fusca* vulg. M. Pet. 717. Brown Nerit.

19. *Nerita Orchad. fusca*, fasciâ unicâ flavescente G. N. 34. 5. & Cat. 116. Single-girdled Covin.

20. *Nerita Orchad. lutea*, bifasciis nigris G. N. 34. 4. & Cat. 115. Double-girdled Covin.

21. *Nerita Orchad. flava*, striis capillaceis G. N. 34. 6. & Cat. 117. Hairy-girdled Covin.

22. *Patella vulg. Anglica* M. Pet. 827. Common Pap-Shell.

23. *Patella Cornubiensis* cornea G. N. 75. 3. lævis fusca List. H. C. l. 4. f. 1. f. 26. Horn Pap-Shell.

24. *Patella Anglica parva*, tenuis, cymbuli formis, lineis cæruleis guttatis M. Pet. 725. Blue-rayed Pap-Shell.

25. *Patella cancellata*, fissurâ notabili G. N. 72. 5. List. H. C. l. 4. f. 1. fig. 28. Cracked Pap-Shell.

26. *Planorbis minima*, *Algis* freq. adnascens G. N. 35. 8. & Cat. 120. Wrack-Spangle.

27. *Purpura rugosa Anglica* G. N. 93. 16. English Purple Shell.

28. *Trochus marit. nostras*, orbibus elatis M. P. 846. Knotted Top-Shell.

29. *Trochus Anglic. Spiralis* M. P. 847. Flat Spear Top-Shell.

30. *Trochus Anglic. spiralis minor* M. P. 848. Round Spear Top-Shell.

31. *Trochus nostr.* lineis latis oblique rubentibus M. P. 849. Broad-waved Top-Shell.

32. *Trochus nostr.* lineis angustis oblique rufescentibus M. P. 850. Narrow-waved Top-Shell.

De Pectinibus, Pectunculis, Ostreis, &c. Britan.

1. *Pecten major nostras* vulgaris Musei Pet. 829. Common Scallop.
2. *Pecten minor latus* Gaz. 94. 1. Small Broad Scallop.
3. *Pecten minor angustus*. Small Narrow Scallop. M. P. 830.
4. *Pecten minor contusus* Gaz. 94. 2. An P. List. Hist. Animal. Angl. p. 186. fig. 31. ? Deformed Scallop.
5. *Pectunculus maximus*, crassus, striatus. An List. H. A. A. 187. fig. 32. ? Great Frill.
6. *Pectunc.* echinatus List. H. A. A. 189. fig. 33. Prickly Frill.
7. *Pectunculus medius* striis plurimis G. N. 93. 10. P. subfuscus, striis leviter tantum incisâ L. H. C. l. 3. fig. 169. Pool-Frill.
8. *Pectunculus marit. nostras* edulis vulg. Mus. P. 835. Common Frill, or Cockle.
9. *Pectunculus minimus triquetrus* G. N. 93. 11. An P. exiguus subfuscus List. H. C. l. 3. fig. 154. ? Small Malden Frill.
10. *Pectunculus maximus crassus nostras* nigricans Mus. P. 832. Great Black Cockle.
11. *P. max.* lævis, ferè radiatus Mus. P. 833. Smooth Shining Rayed Cockle.
12. *P. minimus* lævis, intus argenteus, cardine ferratâ Mus. Pet. 841. Gaz. 17. 9. Small Smooth Silver Cockle.
13. *Ostrea vulg. esculenta* Mus. P. 822. Common Oyster.
14. *Ostrea perlata*, capite foraminoso Mus. Pet. 823. Perforated Pearl-Oyster.
15. *Mytilus albus minor* G. N. 73. 1. *Pectunculus exiguus* albus, admodum tenuiter striatus List. H. C. l. 3. fig. 69. Guernsey Barge Cockle.
16. *Glycymeris Cornubiensis* crassa marmorata Mus. Pet. 816. Round Grater-Cockle.
17. *Lunula major*, fasciis rugosis G. N. 93. 17. List. H. C. l. 3. fig. 122. Rugged Moon-Cockle.
18. *L. Cornubiensis* fasciis capillaceis G. N. 93. 15. Thread-girdled Moon-Cockle.
19. *L. Orchad* fasciis tenuissimis G. N. 76. 1. Silk-girdled Moon-Cockle.
20. *L. Cornub.* fasciata & undata G. 75. 12. Ray-waved Moon-Cockle.
21. *Chama nostras*, striis capillaceis M. P. 811. Common Purr.
22. *C. fasciata & radiata* G. N. 94. 8. Girdled Beam-Purr.
23. *C. alba*, rotunda, fasciata G. N. 93. 18. Round girdled White Clam.
24. *C. lata & compressa nostras* M. P. 810. Broad Flat Clam.
25. *C. lata minor* G. N. 94. 3. Small Flat Clam.
26. *C. lata minor*, cardine cochleato G. N. 94. 4. Small Spoon-hinged Clam.
27. *C. lucens* crassa, pretenuis. Small Thin Shining Clam.
28. *C. media* crassa Occidentalis G. N. 94. 7. Thick Pool Clam.
29. *C. parva*, capite rubro G. N. 94. 5. Small Red-headed Clam.
30. *C. parva*, cap. rub. fasciis pluribus G. N. 94. 6. Small Red-headed Girdle Clam.
31. *Musculus marit. vulg.* edulis M. P. 820. Common Sea-Muscle.
32. *Tellina vulg. radiata* lævis. An T. List. H. A. A. 190. fig. 35. & l. 3. fig. 217. ? Common Toothed Tellen.
33. *T. compressa è rubro radiata* G. N. 94. 9. An T. List. H. C. l. 3. fig. 241. ? Red-rayed Tellen.
34. *Solen nostras vulgaris* Mus. Pet. 844. Sheath-Shell.
35. *Pholas brev. cardine foram.* G. N. 97. 11. Short Peirce-Stone.
36. *P. angustus*, cardine foram. G. N. 97. 10. Long Peirce-Stone.

37. *P. minor* non perforatus. An Lift. H. C. I. 3. fig. 278. & Hist. A. A. 193. fig. 39. ? Lappet-hinged Peirce-Stone.
38. *Chama pholas* latus G. N. Tab. 79. 12. Concha lævis, &c. Lift. H. A. A. p. 192. fig. 36. Smooth Baftard Clam.
39. *C. bifrons* G. N. 79. 13. Concha altera, &c. Lift. H. A. A. 191. fig. 38. Long-tongued Baftard Clam.

FOSSILIA CANTIANA :

FOSSILS found in the Chalk-Pits of KENT, &c.

1. *Columellus turbinatus* albus *Cretaceorum* Luid. Lith. Britan. p. 8. 137.
2. *Terebratula vulgata* *Eburnea* L. Lith. Brit. 41. 854.
3. *Echinites* galeatus vulg. seu elatus galeam referens è puteis *Cretaceis* L. Br. 46. 951. tab. 12. fig.
4. *Echinites pileatus* seu fig. conoide vel quodammodo *Turbinata* L. Br. tab. 12. fig. 957. p. 47. *Echinites Cretaceus* pyramidalis, quinis radiis in tessellis interpositis Muf. P. 126. Cap-Stone.
5. *Echinites cordatus* vulg. seu *Echinus spatagus*, vel *Ovum marinum* nostratum referens, quinis incilibus donatus L. Br. tab. 32. fig. 964. p. 47. *Echinites spatagoides Cretaceus* Muf. Pet. 127. Found with the last in Charlton Chalk-Pits, and called there Toads-Arfe.
6. *Radiolus glandarius* vulgari similis in *Cretosis* delitefcens L. Br. 1000. p. 49.
7. *Radiolus gland.* pediculo longiusculo subnixus L. Br. 1001. p. 49.
8. *Radiolus Cucumerinus* candidus L. Br. 1007.
9. *R. Cucumerinus* minor L. Br. 1008. p. 49.
10. *Astropodium* medium crassiusculum è *Fodinis Cretaceis* five *Eburneum compactilius*, dorso lævi, minoribus adnumerandus D. Woodward L. Br. tab. 13. fig. 1113. p. 53.
11. *Entrocho* congener *Volvola* vulg. *Eburnea* L. Br. 1162. p. 56.
12. *Volvola dolata* seu *Cadifcum* referens elegantior L. Br. tab. 13. fig. 1163. p. 57.
13. *Volvola ulriculata*, asterisco in fundo insignita L. Br. tab. 13. fig. 1164. p. 57.
14. *Ocreatula Luidii* 1167. p. 57.
15. *Ophioglossum* fossile minus *Cantianum* L. Br. 1274. p. 64.
16. *Belemnites* electrinus minor, figuræ ad cylindroidem propius accedentis L. Br. 1706. p. 88.
Dr. Woodward found 17. and 18. in a gravel-pit, Black-Heath.
17. *Turbo* fossilis albidus, in arenosis delitefcens clavellatus L. Br. 351. p. 21.
18. *Trigonella* minor, five vulgatiore *Anglica* 8. 816. p. 40.
The three following found in shell-beds, Woolwich.
19. *Unicorru* fossile, fasciis muricatis Musei 737.
20. *Unicorru Cantian.* fossile, orbibus compressis asperis Muf. 739. More rare than the last.
21. *Pezunculus* minor levis fragilis.
22. *Echinus pileatus* elatior. } Found in the fields about Sit-
23. *Echinus pileatus* depressior. } tingbourn in Kent.
24. *Musculus* accedens, *Conchites* maximus spoliatus ab *Arietini* testiculi similitudine *Criorchites* dictus L. Br. 767. p. 38. In a stony ground about Dr. Plott's house, Sutton-Barn, Kent.
25. *Columellus turbinatus* minor subalbidus J. Woodward L. Br. 136. p. 8.
26. *Glossopetra* maxima cuneata *Cantianorum*, five anthracina lævis quatuor unciarum longitudine mucrone obtuso L. Br. tab. 15. fig. 1259. p. 64. The largest yet found.

FOSSILIA SHEPPEIANA :

FOSSILS found in the Island of SHEPPEY.

1. *Talagmites* cereus, tubulorum in quibusdani calculis marinis cavitates occupans Luidii Lithophyl. Britannic. tab. 1. fig. 50. p. 4. *Piped Waxen Vein* Muf. Regal. Societat. 312. Found on the shores.
2. *Turbinites* densis trochleis marmoreus, involucre ex *Vitriolo* spoliatus Luid. Lith. Brit. No. 352. p. 21. Found with most of the following on the shores near Minster.
3. *Turbinites nudus vitriolatus*, *Buccini* ferè aperturæ L. L. Br. 373. p. 21.
4. *Turbinites Vitriolo* imbutus, involucris leviter crenatis L. 374. p. 21.
5. *Trochites* medius clavellatus *Sheppeia* L. 407. p. 23.
6. *Muricis* Veneris Cat. Muf. Ashmol. Imago fossilis *Vitriolata* L. 426. p. 23.
7. *Echinites cordatus* spoliatus, five *Siliceus* acupictum involucre exutus L. 968. p. 47. *Echinites* præter radios & annulis duplicatis insignitus Lift. Hist. Animal. 224. fig. 28. Plot. H. Ox. tab. 2. fig. 11. and tab. 7. fig. 9. p. 91. sect. 33. and p. 128. sect. 147.
8. *Gracirrhynchus* vulgaris rectus appendicula ad radicem utrinque donatus, five *Glossopetra rostrum Corvini* referens auriculata L. tab. 15. fig. 1260. p. 64. Well known to all the women and children in this island, by the name of Crampstone.
9. *Gracirrhynchus* radice in vulgari quodam calculo sepulta L. 64. tab. 15. fig. 1261.
10. *Gracirrhynchus* minor recurviroster five mucrone sursum reflexo. L. 64. tab. 15. fig. 1262.
11. *Gracirrhynchus atronitens* cernuus, five acuminatus corneus mucrone acuto, deorsum vergente L. 1263. p. 64.
12. } *Gracirrhynchus* vulg. { dextrorsum falcatus L. 1264. p. 64.
13. } { sinistrorsum falcatus L. 1265. p. 64.

14. *Ornithoglossum* sessile vulgare, five *Glossopetra Piceæ linguatæ* referens L. 1266. p. 64. *Glossopetra* minor, *Ophioglossum* petræum, *Lingua serpentum* seu *Natricum Wagneri* Hist. Nat. Helvetice, p. 310.
15. } sessile, latiusculè mucronata L. 1267. p. 64.
16. } recurvirostrum, five mucrone sursum arcuato L. 1268. p. 64.
17. } *Ornithoglossum* { falcatum vulgare dextrorsum sinistrorsum L. 1269. p. 64.
18. } recurvirostrum minimum L. 1270. p. 64.
19. } minus sinuosum L. 1270. p. 64.
20. *Serrella* cornea *Sheppiana* L. 1276. p. 64.
21. *Scopula* litoralis anthracina, &c. five *Xylosteum* nigrum, è minoribus, verriculo calceario simile L. 81. tab. 17. fig. 1594.
22. *Salinarium* trinare anthracinum majus, five *Ithyospondylus* salinum referens, tribus utrinque naribus fenestratus L. 84. tab. 21. fig. 1627.
23. *Salinarium* trinare minus five *Ithyospondylus* anthracinus clapydratus L. 84. tab. 18. fig. 1268. Resembles the back-bone of a cod.
24. *Salinarium* trinare humilius L. 1629. p. 84.
25. *Salinarium* compressum & informe deletis naribus seu occlusis prorsus fenestrellis L. 1230. p. 84.

FOSSILS found at PYRTON PASSAGE,

On the Severn, in Gloucestershire.

1. **P**ALE Triangle Spar, or *Cawke*.
2. Star-Coral Stone.
3. Oak-Stone; from the likeness it has to that wood.
4. Great
5. Flat } Crested Ram's-Horn, { near Frethern.
6. Small }
7. Thick, Red Ram's-Horn.
8. Ram's-Horn in long thin pieces. N. B. Ram's-Horns are fossils representing a Snake, coiled round like a Ram's Horn, ribbed and jointed.
9. Great Snail-Shell Stone; from its resemblance to that found in gardens.
10. Small Shining Oyster-Stone.
11. Great Long Stone-Oysters.
12. *Ague-Shell*; in Leicestershire called Crow-Stones.
13. Small-bellied *Ague-Shell*.
14. Flat-headed *Ague-Shell*.
15. Great *Coverlid*.
16. Smooth Fan-Scollop, with a hooked bill.
17. Small Marble Flat-Hearts.
18. Great, Long-streaked Flat-Hearts.
19. Rugged Muscle-Stones.
20. Long Muscle-Stone.
21. Button-Stones, with large orbits.
22. Yellow Shining Needle-Stones of divers sizes.
23. Branched Star-Stones. This is a very elegant fossil, branched like the twigs of a birchen rod, full of knotty joints. These impressions are found in a sort of flat, brown, clayey stone, or slate.
24. Crows-Feet; a sort of Star-Stone.
25. Star-stone Wires.
26. Yellowish Worm-Stones.
27. A black rough body, with a double slant stroke.
28. Another small, black, warty substance. Both these seem to be parts of a Lobster, or other crustaceous animals.
29. Small Dog's-Tooth Stone.
30. Small Palate Stone.
31. Another, somewhat flatter.
32. Knobbed Palate Stone.

The Eleven following seem to be Fossil Bones.

33. Great Bone-Stone, like a played foot.
34. Another, resembling a hand of corn.
35. Another, smaller and black.
36. Black, Hollow Streaked Bone-Stone.
37. Another, with a deep streak on the hollow side.
38. Stone Curry-Comb.
39. Black Sawhorn.
40. Latticed Black Horn.
41. Saucer-Stone. A fossil sort of Vertebra, or Back-Bone.
42. Fossil Whales-Bone.
43. Grey, Rough Scaley Bone.
The following are Fossil Vertebrae, or Saucer-Bones.
44. Great Elbowed Saucer Stone.
45. Another, without elbows.
46. The Whale Saucer-Stone. This is seven inches about.
47. Divers small ones.
48. A great round mis-shapen one.
49. Another Dish, or Panchined one.
50. A common one, very large and round.
51. The same, with sharp edges.
52. Pieces of the same, all stoney.
53. Lesser ones, very much worn.
54. Shelving Saucer Stones.
55. Small Flat-nosed Saucer Stones.
56. Giant Star Saucer Stones.
57. Jointed Saucer Stone.
58. Middling, Flat-cupped, Grey Thunderbolt.
59. Wreathed Hair-Stone.

N. B. These two last come amongst the Anomalous Fossils.

Madam Maria Sybilla Merian's HISTORY of SURINAM INSECTS,

Methodized, with Remarks, by JA. PETIVER, F. R. S.

THIS celebrated Lady having published two Quarto Volumes of the Insects, their Changes and Feed, of Germany and the Netherlands, (the first her native country, and the last her residence) here presents us with the History of such as she found and painted in Surinam, with their lively Figures, Changes, and the Plants they feed on.

CAP. I. LIZARDS, FROGS, and SERPENTS.

1. **THE Saguard.** Tab. 4. *Lacerta marmorea Surinamensis*, caudâ nigris zonis ornata. This is a beautiful amphibious Lizard, or small Crocodile, of ten or twelve feet long: it feeds on fish, dead carrion, flies, ants, &c. Their eggs, which the Indians eat, are as big as those of hens: these they lay in the sand, and are hatched by the sun. This seems to be the Guiney Pompos, a harmless bugle-skinned lizard, Gaz. tab. 15. fig. 6.

2. *Surinam Stellio.* Tab. 23. *Lacerta Surinam. cœrulescens*, maculis albis. A harmless Lizard; the body blueish, with white spots, and a broad blue list along the back from head to tail. This laid four whitish round eggs, which hatched at sea with the authoress in her return home; but the dam and young died for want of proper food.

3. *Wing-eared Surinam Frog.* Tab. 56. *Rana aurita Surinam. digitis globosis*; from two extended flaps, or ears, placed between his head and shoulders. He is of a dark brown, marbled in several parts with green eye-spots and streaks: what is very singular, he hath globular toes instead of claws, that he may with the more ease walk on the surface of moist mud, &c. Gaz. 150. 12.

4. *Dorsiferous Surinam Toad.* Tab. 59. *Bufo Surinam. fœtis Dorsifer*. The female of this strange out-of-course animal breeds its young ones on its back, whereon are many cells, each containing an egg: these, when ready to spawn, you may see creeping out, as the figure curiously represents. The body is dark brown, their fore feet fingered, but the hinder webbed. Gaz. 151. 12.

5. *Tun-belly Snake.* Tab. 5. *Serpens marmorata Surinam. ventre tumido*; from the largeness and similitude of that part. It is spotted like our Adder or Viper, but with greater variety, and finer. It lays soft eggs, as other snakes, spotted blue. Gaz. 151. 8.

6. *Surinam Ribband-Snake.* Tab. 46. *Serpens Surinam. marmorata rubescens*. The back of this is red, and belly white, but both finely marbled. Found at the root of a Jasmine.

CAP. II. SECT. I. Single coloured BUTTERFLIES.

7. *Whitish Surinam Butterfly.* Tab. 58. *Papilio Surinam. è flavedine albescens*. Has the face of some of our common English white Butterflies, but yellowish below, with buff edges and marks; spotted with silver in the midst of each wing. The caterpillar is hairy-tufted and bristly, with saffron spots: it feeds on the Welshed Bean-tree, and turned into a thread-pendent green coffin June 16. and 26th broke into the butterfly, three inches long, viz. between the tip of each upper wing, and one and a half broad. G. 149. 4, 5.

8. *Surinam Brimstone-Butterfly.* Tab. 51. *Papilio Surinam. flavus*. Shape and size of the last, but yellow on both sides, without any spots above. The caterpillar of the same colour, a little hairy, armed with five blackthorn-like prickles; the coffin brown, turned June 16. and the 30th it hatched. Gaz. 141. 7, 8.

9. *Pale Casheew-Eye.* Tab. 16. *Papilio Surinam. pallidus, alis inferioribus oculatus*. The greatest part is of a yellowish white, the selvedge of the lower wings brown and eyed. The leaves of the Casheew-apple is the food of this caterpillar, which is gross and short, thick set with large tufts of white hair, so long that it appears not unlike a shock dog. Coffin brown, common shape; which turned March 3. hatched the 18th. Gaz. 142. 16, 17, 18, 19.

10. *Small Pappaw Butterfly.* Tab. 40. *Papilio albus minor Surinam. margine flavo, maculis fuscis fimbriatus*. The midst of this small butterfly is white, selvedged with yellow and brown spots on the lower edges. The caterpillar yellowish, with liver-coloured streaks, and feeds on the Pappaw leaves: it confined April 6. and hatched the 20th. Gaz. 145. 11. S. 12. U.

11. *Golden Butterfly, with Black Guards.* Tab. 38. *Papilio minor aureus Surinam. limbis nigris*. This is yellow in the middle, with two half-moons of the same colour; the rest black. The caterpillar small, smooth and yellow, streaked with green: it feeds on the Wild Cassada: it confined May 6. and flew the 20th; near two inches long, and one broad. Gaz. 145. 8. M. 9. P.

12. *Blue Surinam Hair-Streak.* Tab. 13. *Papilio medius Surinam. cœruleus, infra subpurpureus*. A middling butterfly, about two inches long, and more than one broad; above wholly blue, except a yellow spot on the inner tip of each lower wing, with two white-girdled streaks and a round yellow spot in the middle of each lower wing, near its edge. The caterpillar is small, green, and beset with pin-headed hairs, feeding on the Yellow Cluster Plumb leaves: its coffin little and brown, remained from April 7. to 20. and then changed as above. Gaz. 142. 13.

13. *Grafs Butterfly.* Tab. 2. *Papilio Surinamensis, è virescente & nigredine mixtus*. An *Pap.* Jamaic. è fusco lutescente, subtus virescens, &c. Gaz. 13. 1. This butterfly, above is equally mixed with dark brown and pale verdigrease; but below, mostly of the last, with buffish inlets and something of reddish. The caterpillar, found on Grafs, was pale green, with a blue head; its

fore-legs, two neck-rings, a side-streak and spots above, red; the body somewhat hairy, with two tail-bristles of the same. Its coffin buff, hanging by a thread; changed May 10. and 18. broke forth the butterfly as above, more than four inches long. Gaz. 140. 3, 4, 17, 18, &c.

SECT. II. ADMIRALS, viz. such Butterflies as generally have a White, Yellow, or other Field, in the midst of their upper Wings; the rest of other Colours.

14. *Blue Admiral.* Tab. 8. *Papilio Surinam. cœrulescens, campo albo subtus sanguineo*. The ground of this, above is a mixture of blackish and pale blue, with a white field in the midst of the upper wings, which with some smaller white marks are seen below, with several bloody partitions and spots. The caterpillar feeds on the Red Flowered Jasmine; its head yellow, rayed with thorns; the body smooth, greenish streaked with blue, as is its forked tail with that and yellow: the coffin yellow, and of the common shape; commenced Sept. 20. Oct. 11. came out three inches and a quarter long, one and a half broad. Gaz. 141. 3, 4.

15. *Brown Surinam Admiral.* Tab. 35. *Papilio Surinam. fuscus, areis flavis*. Above, it is of a brown ground, with yellow alleys; below, much the same, but spotted. The caterpillar (feeds on a Necklace-podded Coral-tree) is somewhat hairy, reddish, with white streaks on its back: this turns into a yellowish thick coffin, blotched and girdled with red: it has a small mixture of green from the broad end to the middle; it changed April 1. and hatched the 15th into the butterfly, five inches long, and two broad.

16. *Brown, Girdled, Surinam Admiral.* Tab. 32. *Papilio Surin. fuscus, areis flavis, subtus punctatus*. This, above resembles the last, but differs below in being finely pounced with various fields and differing yellow eye-spots circled with white. The caterpillar is smooth and green; hath a forked head and tail; the last yellowish and blue; the other, with its mouth and side-lines, purple; the lowest yellow, as are its girdles: its beautiful coffin mostly purple, with some green and speckled with silver: this changed May 20. June 4. hatched, near five inches long, and two broad. Gaz. 144. 1, 2.

17. *Dark Surinam Admiral.* Tab. 36. *Papilio Sur. nigrescens, areis albis maculisque flavis*. Its ground is very dark, with long white alleys; the outer somewhat spotted, as are the selvedges of the lower wings, with yellow: the upper wings, below are purplish, the lower tawny with two yellow spots. The caterpillar smooth, large, and marbled with tawny black and white: its coffin thick, short, same colours: this changed April 14. the 26th hatched a butterfly four inches long, and above one and a half broad.

SECT. III. ATLASSES. These are Great-eyed Butterflies of the largest Size, and are more or less adorned above with a glorious shining Blue.

18. *Azure Atlas.* Tab. 53. *Papilio Surinam. azureus, angustâ margine fusca*. The upper selvedge of this beautiful insect is very narrow and brown, with white spots; the rest deep blue with silver shades: it is brown below, with three large eyes in each wing, with greenish waves edged with tawney and white: it is six inches long, and three broad. The caterpillar feeds on a sort of Medlar, is yellow streaked with red, and each wing beset with stiff prickles: its coffin arched with a bow-string; otherwise like those of the common kinds. This and the next appear in January, and hatch about a fortnight after they have confined. Gaz. 148. 4, 5, 6.

19. *White-listed Atlas.* Tab. 60. *Papilio max. Surinam. lineâ albâ angustâ notatus*. This has a large brown selvedge on the upper wing, with a white slant through the middle; all the rest blue: underneath it is very finely marbled, and adorned with three eyes, viz. one small in the upper wing, and two in the other; the lower most magnificently large. The caterpillars are red, with four blue spots on each side, from whence arise black hairy bristles: these turn into a beautiful spotted coffin about new-year's day, and about a fortnight after hatch; are four inches broad, and almost eight long.

20. *Brown-selvedged Atlas.* Tab. 9. *Papilio max. Surinam. margine fusco lunulato*. This differs from the last in being on the brown, with white moons instead of the list: it hath below six middling eyes, with two smaller in greenish circles; the rest of the ground brown, shaded with purple, and edged with yellow waves. The caterpillar thick, large and smooth, mixed with yellow and red, ribbed with white eyes and slants: it feeds on the Pomegranate leaves; confined April 22. and hatched May 8. seven inches long, and three broad.

21. *Brown Admiral Atlas.* Tab. 7. *Papilio max. Surin. fuscus perelegans areâ cœrulescente*. Next the body (unlike all the rest) has a large brown field; as are also its edges, but waved and eyed with tawney and white: in the midst is a large blue field mixed with silver towards the top, where it is widest. Finely veined underneath, mostly with green; adorned with seven eyes variously circled; five inches broad, and near nine long if fully extended. The caterpillar large and green, set with short red prickles, and hairy tufts; the last only near its head. It confined April 20. and hatched May 6. Gaz. 141. 2.

22. *Buff Atlas.* Tab. 23. *Papilio Surin. max. subtus perbellè oculatus ac marmoratus, &c.* Gaz. 28. 1. The upper wings of this are of a fad buff or brown; the lower blackish, with a variable shade of blue next the body: below, it is elegantly marbled, and very remarkable for a large eye in each lower wing near the body, which is encompassed with part of the wings, very finely girdled,

grailed, much resembling those of the common Netted Locust. Its caterpillar (feeds on Baccove leaves, a sort of Plantane) has a hairy forked tail; the body brown, with four prickles on its back, with other hairy ones on its head. Its brown coffin was spotted on each side with silver; turned Dec. 3. and hatched before Christmas; three inches broad, and above six long. G. 143. 1, 2, 21.

SECT. IV. CAUDATED, or Tail-winged Butterflies, commonly called PAGES.

23. Green, Streaked Jamaica Page. Tab. 29. *Papilio caudatus* Jamaic. *nigrescens utrinque ex viridi aureo splendide striatus*, Muf. Pet. 509. The ground of this black, very elegantly striped with pale blue and shining green of a metallick lustre; its length four inches, and breadth three, whereof its tail was one. Its caterpillar green (feeds on Shaddock or Pumplenose leaves) finely beset with hairy bristles, longest towards the head and tail; the coffin brown and spotted; changed Aug. 3. and burst the 19th. Gaz. 151. 3.

24. Red-streaked Maryland Page. Tab. 43. Page de la Reine Gallis. *Papilio caudatus* Marianus *fuscus, striis pallescentibus, lineâ & maculis sanguineis subtilius ornatus* Muf. Pet. 508. This resembles the last in shape and size, but instead of its greenish lustre is whitish, and underneath has a singular streak through each lower wing. This caterpillar is black, speckled with white, and hairy-bristled, (very like that of our English Peacock's-Eye); but these at the end are stellated. This changed, April 3. into a brown coffin, and hatched the 17th.

25. Small Silver-spotted Surinam Cotton Page. Tab. 10. *Papilio* Surin. *caudatus minor, verruculis ex aureo argenteis subtilius eleganter aspersus* Gaz. 10. 9. This is a small pale Butterfly, with brownish tips; the two innermost the longest, with others much shorter, all tipped with white, and underneath finely beset with metallick shining blisters. The caterpillar feeds on the Cotton-bush, is smooth, of a whitish yellow speckled with black. This changed June 19. and hatched July 24. Gaz. 141. 10, 11, 12.

SECT. V. CURL-WINGED Butterflies, are such whose lower Wings are scolloped, curled, or indented; called by some CAROLS.

26. Red-spotted, Black Carol. Tab. 17. *Papilio dentatus niger* Surinam. *maculis rubris*. The ground of these black: each upper wing above has four white spots, and many red on both sides of the lower. Its caterpillar is elegantly marked and streaked with yellowish thorns on each wing, and two on his forehead: these feed on the Lime, or Wild Lemon-tree; and turn into a brown coffin, which bursts, the beginning of April, into a fly above four inches long, and two broad.

27. Green Rose Carol. Tab. 31. *Papilio dent. viridis* Surin. *lunulis subtilis tricoloribus*. This is wholly dark green above, as are its upper wings below; but the lower brown-edged, with three rows of moon-like spots, the innermost red, middle blue, the outer yellow; of much the same make and size with the next, and change at the same time, viz. Aug. 30. it confined, and hatched Sept. 14. Gaz. 144. 24, 25, 26.

28. Yellow Rose Carol. Tab. 31. *Papilio dentat.* Surinam. *luteo & nigro mixtus*. The ground of this is dark-brown; the middle yellow, as are its lunets: it is near five inches long and two broad. This and the last may be male and female, both hatched from caterpillars, which feed on the Changeable American Double or Rose Holly-oak.

SECT. VI. LONGALES are Butterflies that have their upper Wings very long, and much narrower than the under.

29. Guava Longale. Tab. 19. *Papilio longipennis* Surin. *niger, campis transparentibus*. The caterpillar of this is green and smooth, with a black face; its coffin common-like and brown. This in August, after a fortnight's lying, breaks into a black butterfly with transparent fields, three inches and a half long; and little more than one broad.

30. Small Transparent Longale. Tab. 35. *Papilio longipennis minor* Surin. *niger, maculis translucidis*. This is much smaller than the last; the upper wings spotted, the lower pale and felledged; the caterpillar brown and hairy. It confined April 10. and hatched the 23d; was something more than two inches long, and near one broad.

31. Tricolor Longale. Tab. 30. *Papilio longipennis* Surin. *è nigro luteo ac inferius rubro mixtus*. Its outer wings above are black and yellow; its inner scarlet, with a black felledge. The caterpillar greenish, with very long whitish hair: it confined May 3. and hatched the 17th into a fly near three inches long, and one broad. Gaz. 144. 4, 5, 6. 25, 27.

SECT. VII. MISCELLANY Butterflies, viz. such as in some Respects agree not with the former.

32. Broad-winged Cassada Butterfly. Tab. 4. *Papilio* Surin. *ex albedine & fusco mixtus, maculis lunulatis fimbriatus*. The caterpillar is brown and hairy; feeds on the Yucca, or Cassada: it confined June 12. and July 1. broke out a pale and brown butterfly, with lunetted felledges, three inches long, and one and a half broad. Gaz. 143. 21.

33. Arnotto Butterfly. Tab. 44. *Papilio medius viridis* Surinam. *subtilius rubescens*. This is about two inches long and one broad, green above, reddish below, with a broad large white slant from the middle of its lower wings. The caterpillar scarlet, with yellow circles and red hair; feeds on the Urucu, or Arnotto: April 4. it turned into a hairy red coffin, and May 6. changed as above. Gaz. 146. 4, 5, 6. 19, 20, 21.

34. Vanilla Butterfly. Tab. 25. *Papilio exoticus aureus, maculis argenteis & nigris, subtilius eleganter aspersus*, Muf. Pet. 519. Is of an orange colour spotted with black, as it is much more elegantly underneath with silver, especially the lower wings. The caterpillar is scarlet streaked with yellow, and feeds on Vanilla leaves: it turned, towards the end of May, into its chrysalis, or coffin, and hatched June 7. as above. N. B. These butterflies are frequent in Jamaica, where the Vanilla has lately been discovered to grow: they are also pretty common in Carolina, where it may likewise probably grow, and might be soon discovered, if the curious would but carefully observe to what plants and flowers this insect resorts. Gaz. 144. 7, 9.

CAP. III. PHALENÆ, or MOTHS.

SECT. I. HAWKOMS, or HAWK-MOTHS; from the playing on the Wing, and hovering, like them; for they never settle whilst feeding, having a very long Proboscis, or Snout, to fetch the Dew out of Tubulous Flowers, as Jasmines, &c. Many of these are wonderful large.

1. *Cappicum* Hawk-Moth. Tab. 55. *Accipitrina media* Surinam. *cinerea, corpore maculato*. This is a grey moth, undulated above, and streaked below; about five inches from tip to tip, viz. between the extremities of each outer wing when expanded: on each side of its body are five round orange spots, with six white ones under them. These fly in the night only. The caterpillar is green and smooth, with a white list down its back, and a purple below, with dots and slants between: on his tail is a crooked red horn, pounced with black; and in marks and shape very much resembles our English Privet caterpillar; feeds on the leaves and fruit of the Cappicum, or Guinea Red Pepper. Jan. 22. it turned into a snouted brown coffin, which changed Febr. 16. Gaz. 142. 10, 11.

2. *Cassada* Hawk-Moth. Tab. 5. *Accipitrina major* Surinam. *cinerea, corpore maculato*. The three upper rings of the body, next the shoulder, have on each side an orange spot: both wings above are finely waved with black and white; and it is seven inches between each tip. The head, feet, and tail, of this caterpillar, are red; the body five inches long, smooth, large, and black, with white girdles; its tail horned. They are so great devourers of the Cassada, that some years they cause a dearth or scarcity of that bread. These, in December, after they have cast their skin, change into a brown swaddled coif coffin, which a month after turns into the aforesaid hawkom. Gaz. 140. 8, 19, 20, 21, 22.

3. *Male*, or Lesser *Hedge-Coral* Hawk-Moth. Tab. 11. *Accipitrina major fusca* Surin. *undata, seu Mas*. Gaz. 142. 1.

4. *Female*, or Greater *Hedge-Coral* Hawk-Moth. Tab. 11. *Accipitrina max. fusca* Surin. *seu Fœmina*. Both these are green, brown, marbled moths, which hatched a various changing caterpillar: these thrice a year infest a tree, which the Dutch in Surinam call Palifaden Boom, or Palifado Tree, making beams, boards, and pales of it. These caterpillars are yellow, with black rings, armed with six spikes. Before these have acquired half their growth, they change their outer skin, and become of an orange colour, with a black spot on each side of every ring, still retaining their spikes or thorns; and in a few days they change again, and then lose them; otherwise like those in the last state, except much larger, viz. four inches long, and proportionably thick. These confined April 14. 1701. and mothed June 12. the male six inches, the other more than seven long. G. 141. 13, 14, 15, 16, 17, 18, 19.

5. Greater Marbled Fig Hawk-Moth. Tab. 33. *Accipitrina Ficoides major* Surin. *è fulvo & fusco mixta*. The body of this is dark brown, as is the ground of its wings; the rest buff. This seems the male of the next, and is above five inches long.

6. Lesser Brown Fig Hawk-Moth. Tab. 33. *Accipitrina Ficoides* Surin. *pene fusca*. This has a bushy tail, as the other was pointed; the wings murray, or dark brown, with very little buff; above four inches long. Both these came from the same caterpillar, which is at first green, streaked with yellow, and tail-horned: these afterwards turn into an orange colour, circled with red, but head and tail black; thick as one's thumbs, and near six inches long: in this state it eats not, but turned into a brown coffin March 22. hatched April 12.

7. Grey, Marbled, *Guava* Hawk-Moth. Tab. 57. *Accipitrina media* Surinam. *cinerea, undis nigris, corpore maculato*. Between each tip was four inches and a half; the wings grey, finely marbled; the body dark, with five round orange spots on each side. The caterpillar tail-horned, green, with six pale slants on each side, with an eye-spot between each; about five inches long, and finger thick: chrysalised May 20. into a bow-beaked reddish coffin, mothed June 14.

8. Pale, *Jasmine* Hawk-Moth. Tab. 46. *Accipitrina cinerea minor* Surin. *alis subtilius flavescens*. This is a grey moth, about five inches between each tip: it has an eye-spot near the middle of each upper wing, below mostly yellowish; the rest grey. The caterpillar four inches long, smooth and green, with black girdles, and a broad yellow one near the neck; confined Febr. 12. and mothed March 16.

9. Orange, *Goliab* Hawk-Moth. Tab. 52. *Accipitrina max. Sericifera* Surinam. *undata, albis quatuor fenestris*. This is above eight inches long, and three and a half broad in the middle, and four and a half on the outer edges: it has a broad waved felledge; the rest brown, with crooked white streaks, and in the midst of each wing a large transparent window-pane, resembling lantern or Mucovy glafs. The caterpillar eats the leaves of the China Orange

Orange; is large, greenish with double yellow rings, the first befet each with four star-like hairy warts. The silk-bag is yellowish, and the silk so strong, that in Holland it is judged to be better than the common. It confined Febr. 18. and lay till March 11. N. B. This, in shape, size and colour, comes near Petiver's large Indian Moth, Gaz. Tab. 8. 17. 148. 1, 2, 3.

10. Orange-spotted Hawk-Moth. Tab. 38. *Accipitrina longipennis cinerea* Surin. *undis nigricantibus*. This is almost seven inches long, and not two broad; its upper wings finely waved and marked, the lower orange shouldered, the rest clouded: the body has three remarkable orange spots on each side. The caterpillar feeds on the Spanish Phynick-Nut; is tail-horned, short-haired, greenish, with a scarlet list on the back, yellow-spotted and slant-freaked, with a large white one from the horn. It confined June 23. hatched Aug. 20. following: its snout makes a bow or ring to the coffin. Gaz. 145. 9. O. P. M. N.

11. Peacock-Crest Hawk-Moth. Tab. 42. *Accipitrina media* Surin. *cinerea corpore luteis & albis maculis ornata*. This is a grey waved moth, about four inches long, and one and a half broad; its lower wings broad lifted. The caterpillar horn-tailed, smooth and grey, with white slants and eye-specks under them. The coffin scarlet, and bow-snouted like the last; turned Jan. 22. hatched Febr. 16.

12. Great Sop Hawk-Moth. Tab. 3. *Accipitrina major* Surinam. *fusca marmorata, corpore maculato*. This is a brown moth, marbled with black and white, the upper part of the lower wings tinged with yellow, the sides of the body spotted with the same colour: this was eight inches extended, and not above two deep. The caterpillar large, smooth, tail-horned, green with white streaks: this changed into a coil-snouted red coffin Aug. 18. hatched Sept. 12. Gaz. 140. 8, 9.

13. Sour-Sop Hawk-Moth. Tab. 14. *Accipitrina minor* Surinam. *fusca, marmorata, corpore maculato*. This is marbled like the last, but much less, viz. but four inches long, and one broad: the under wings brown, streaked with white. The caterpillar smooth, tail-horned, and mostly green: June 22. it turned into a reddish crook-snouted coffin, and mothd Aug. 23. Gaz. 142. 5, 6, 7. 10, 11, 12.

14. Surinam Queen-Hawk. Tab. 20. *Accipitrina permaxima* Surinam. *elegantissime undata*. Is a very large specious wave-marbled moth, about nine inches long and three broad. The caterpillar above five inches long, and proportionably thick, circled with broad black and narrow green rings, with a white list on each side from head to tail, the last horned, and hair-tufted along the back: it fed on the leaves of the Gambodia-tree; confined the end of April, and was covered with an oval silk-bag as big as a hen's egg, which hatched June 3.

15. Surinam Garden Hawk-Moth. Tab. 39. *Accipitrina media* Hortensis *marmorata* è Surinam. Its upper wings marbled with grey, white and black, just five inches long. The caterpillar four, finely marked with green, black, white and red; neither tail-horned, or slanted: about the end of May it spun or wove a silk-bag over its reddish coffin, and hatched June 20.

16. Greenish Surinam Vine Hawk-Moth. Tab. 34. *Accipitrina* Surin. *major viridescens*. The body and wings of this are mostly green, the last near five inches long: the caterpillar rather more, and very thick: it was swelled near the head and tail, with a black spot on the top of the last, and a white speck in the middle, which it raised and fell as often as it breathed. This greedily devoured the leaves of the Blue Grape: it confined Aug. 26. and hatched Sept. 25.

17. Grey Surinam Vine Hawk-Moth. Tab. 47. *Accipitrina major cinerea* è Surinam. This is mostly grey and brown, except the shoulder of each lower wing above, which are partly green. This and the next are of the same size with the last; but this, being the female, is somewhat shorter, and the colours less beautiful.

18. Purple Surinam Vine Hawk-Moth. Tab. 47. *Accipitrina major purpurascens* è Surinam. This, being the male, is painted with finer and more vivid colours, viz. purplish and green, with brown intermixed: the coffin of both, much the same shape, and reddish colour, as is the caterpillar, and green with four large yellow spots on each side, and a long tail-horn: it is smooth, and three inches in length: these feed on the leaves of the White Grape. Both these confined and hatched at the same time, viz. between the middle of May and 6th of June.

SECT. II. OCULATED MOTHS.

19. Dun, Surinam, Eyed Moth. Tab. 6. *Phalena Oculata* Surinam. *fusca*. Is near four inches wide, (i. e.) between the tips: it has a white thread, or slant list, through the midst of each upper wing, with two large black eyes circled with yellow on each lower wing: its caterpillar red, streaked with yellow, thick set with hairy bristles: Aug. 4. this changed into a silk-bag, and hatched 30th. This and the next feed on a sort of Thorny Night-Shade, called there Maccai. Gaz. 140. 10, 11, 12, 13, 14, 15.

20. Marble, Surinam, Eyed Moth. Tab. 6. *Phalena Oculata* Sur. *marmorata*. Is about three inches wide, finely marbled with brown, white, and a cast of yellow: the tip of each upper wing is spotted like a heart, and the midst of each under seems oculated. The caterpillar yellow, spotted with black; the head and tail all black: this is hairy like the last, but with shorter bristles: these have a peculiar quality, in forming coils or rings, by joining head and tail one to another, and quickly return again if parted. Changed July 20. into a small silk-coffin, and hatched Sept. 24. Gaz. 140. 13.

21. Oculated Banana Moth. Tab. 12. *Phalena Oculata* Sânt. campo nigro. Four inches wide: each upper wing has three broad waves of yellowish and brown, with a black field in the middle; the lower have two large eyes, spotted and circled with black, in a yellow ground with pale edging. The caterpillar four inches long, of a pale green, thick set with hairy bristles: this feeds on the Banana leaves: it changed into a silk-bag April 22. hatched May 10. Gaz. 141. 20, 21, 19.

22. Oculated Lilly-Moth. Tab. 22. *Phalena Oculata* Sur. trifasciata. This is scarce to be distinguished from the last in shape, size, or undulations: it has a small speck on each side its body about the shoulders, instead of the black field the other has in the midst of the upper wing. The caterpillar seems the same, in make and bristles, as No. 20. Tab. 6. but the last are very stiff, and the body spotted with blue and yellow circles: it feeds on the Red Lilly; silk-bagged June 4. hatched 30. G. 143. 6, 7. 14, 15, 16.

SECT. III. MIDLING MOTHS.

23. White Surinam Silk-Moth. Tab. 14. *Phalena albida ferricifera* vulg. facie, è Surinam. This is very like our European Silk-Moth; but the caterpillar, which is yellowish and hairy, feeds on the leaves of Sour Sop: it turned into its silk-bag Dec. 3. and hatched Jan. 24. Gaz. 142. 10, 11, 12. 5, 6, 7.

24. Oil-Tree Moth. Tab. 30. *Phalena media pallida* Surinamensis. This, in size, shape, and colour, resembles the last. The caterpillar is black, marked with yellow: it often covers half its body in a dead leaf; and when it wants food, it half exerts itself, like a snail from its shell: these hang themselves to the plants they feed on, with many strings at each end, like a hammock. Gaz. 144. 6, 27.

25. Small, Pale, Musk-Moth. Tab. 42. *Phalena minor albida* Surinamensis. Very like the last, but much less, and whitish with a dark speck on each upper wing. The caterpillar, green striped with black, turned into a scarlet chrysalis March 20. and hatched April 2.

26. White, Spotted Surinam Cotton-Moth. Tab. 10. *Phalena media* Sur. *alba, circulis nigricantibus*. Its outer wings near four inches wide, whitish, and sprinkled with hairy-like feathers, with a yellow list along its back, and one on each side: its horns are pied and jointed. The caterpillar black, with red spots, out of which arise stellated hairs, or bristles: this confined March 20. and mothd April 28. Gaz. 141. 7. 11.

27. Pied Waved Guava Silk-Moth. Tab. 19. *Phalena media alba* Sur. *undis striisque nigris*. The body of this is pale, with black rings; the wings between two and three inches wide, whitish, with black streaks and waves. The caterpillar three inches long, and one broad; white, with black waved rings and many red spots: out of these grow long-haired plumes: this turned Oct. 20. into a large egg-sized silk-bag, hatched Jan. 22.

28. Small Pied Cacao-Moth. Tab. 26. *Phalena minor alba*, Surin. *nigro variata*. This is pied like the last, but much less, and differently marked: its caterpillar smooth, blackish, with red streaks and white marks: they feed on the leaves of Cacao: it chrysalised March 26. mothd April 20. Gaz. 144. 10, 11.

29. Reddish Water-Melon Silk-Moth. Tab. 15. *Phalena media* Surinam. *rufescens*. This in face and size resembles our common Silk-Moth, but is reddish: the caterpillar of a very odd shape, somewhat squarish, at each end blue, and green in the middle, with slimy feet; its other parts not so easily to be described by words, as conceived by the figure; which made our curious observatres expect from it as strange an insect: but she confesses it was not the first time she was deceived, since the oddest caterpillars have often produced common changes, and the meanest sometimes the finest butterflies and moths.

30. Small, Reddish Pied, Silk-Moth. Tab. 28. *Phalena minor* Surinam. è *rubro alboque mixta*. The middle state also of this moth, like the last, was very uncouth, viz. more like a small crab than a caterpillar, and is said to be poisonous and burning by touching it. June 11. it chrysalised into a small round silk-bag, mothd the 27th. Gaz. 144. 18, 19, 20.

31. Small Oculated Eave-Moth. Tab. 27. *Phalena minor* Surinam. *flavescens, fusco mixta*. This is a small yellowish moth, mixed with brown, and has two eye-spots in the midst of each upper wing, which stand shelving like the top of a house. Its caterpillar smooth, brown, and streaked with red: this turned into a small brown chrysalis Sept. 24. mothd Oct. 12. G. 144. 14.

32. Small, Marbled, Surinam Eave-Moth. Tab. 44. *Phalena minor* Sur. *cinerea marmorata*. This has the shape of the last, but much less, and marbled with grey: the caterpillar smooth, brown, and streaked: it turned March 26. into a silk-bag, mothd April 10. Gaz. 146. 4, 5, 6. 19, 20, 21.

SECT. IV. Small SILK-MOTHS, and others.

33. Narrow Tawny Silk-Moth. Tab. 16. Gaz. 142. 8, 9. *Phalena minor fulva, fasciis angustis*. This small tawny fly, with narrow waved girdles, webbed April 5. hatched 20. from a small, swift, reddish caterpillar.

34. Long Tawny Silk-Moth. Tab. 54. *Phalena minor oblonga* Surinam. *fulva, striis fuscis*. Something like the last, but narrower, and with fewer streaks: the caterpillar yellow-ringed, and streaked black, brown head; chrysalised April 2. into a long silk-bag, mothd 14. Gaz. 148. 10, 11, 12, 13, 14, 15, 16, 17.

35. Small, Blue-streaked, Musk Silk-Moth. Tab. 42. Gaz. 146. 10, 11, 12, 13, 14, 15. *Phalena minor fulva* Surinam. *striis cœrulescentibus*. From a blackish caterpillar, with a red head and tail,

tail, and yellow girdles, which turned July 10. into a small silk-bag, and mothed the 26th.

36. *Small Reddish Ocrea Moth.* Tab. 37. *Phalena minor Surinam.* è flavo rubescens. The ground of the caterpillar is yellow, thick set with warts, and black-haired stars; chrysalised into a silk-bag Jan. 17. hatched the 28th into a yellow moth, shaded with red, as the painting represents it. Gaz. 146. K. L. 7.

37. *Pappaw Moth.* Tab. 40. *Phalena minor Surinam.* fasciis notulifque flavis. The caterpillar is composed of black and white rings, with a green belly, from whence come several long hairs, which grow much thicker at the ends; chrysalised June 10. into a silk-bag, mothed July 3. into a lead-colour moth, with yellow circles, waved girdles, and part of the legs of the same colour. Gaz. 145. S. 12. T. 11. V.

38. *Small Grey Moth.* pounced and spotted with black. Tab. 54. *Phalena minor Surinam.* cinerea, nigro punctata. The caterpillar is black and white, with yellow chains, not hairy, but finely pounced; chrysalised June 4. mothed 21. Gaz. 148. 10, 11, 12, 13, 14, 15.

39. *Small Tricolour Marbled Silk-Moth.* Tab. 21. *Phalena minor Surinam.* pulchrè marmorata. The painting shews it marbled with black and pale green, with white veins interspersed: the caterpillar whitish, with black rings, thick set with slight longish bristles, reddish at the bottom; chrysalised May 28. into its silk-bag, mothed June 7. Gaz. 150. 8, 9. 143. 8, 9, 11, 12.

40. *Small Bush-tailed Battata Silk-Moth.* Tab. 41. *Phalena minor Surinam.* caudâ pilosâ. Gaz. 146. 22, 23.

41. *Small Slender-tailed Battata Silk-Moth.* Tab. 41. *Phalena minor Surinam.* caudâ tenuiore. G. 146. 22, 23, 24, 25, 26.

Both these produce small hairy caterpillars, at first green: their motion is very quick, backwards or forwards: they change red, and then into a silk-bag about Aug. 24.; about the 30th mothed into the two varieties, as above, (N. B.) which I suppose are male and female.

42. *The Pigmy Ocrea Fly.* Tab. 37. *Phalena fortè minima Surinamensis.* The posture of this small insect is somewhat obscurely expressed: it was hatched from a small white grub with black spots, which fed on Ocrea leaves. March 1. hatched the fly above.

CAP. IV. BEES, WASPS,

And other Transparent and Membranaceous Winged FLIES.

1. **T**HE Black *Humble-Bee* with yellow Girdles. Tab. 48. *Bombylus niger Surinam.* zonis luteis. The legs, horns, and body black, except a yellow girdle about its waist, and three or four more near its tail: that part of its wings next the body is somewhat clouded, the rest transparent. The caterpillar thick and short, its body yellow and black, beset with pencil-like hairy tufts of the last colour: this changed into a silk-bag August 3. and broke 15. into the bee. Gaz. 147. 7, 8, 9. 13, 14, 15.

2. *The Streaked Tawny Bee.* Tab. 36. Gaz. 145. 6. *Apis minor Surinam.* striatus fulvus. Hatched in April, about ten days after it chrysalised.

3. *The Green-bodied Bee-Fly.* Tab. 58. Gaz. 149. 6, 7, 8. *Musca Apiformis Surinam.* corpore viridi.

4. *The Blue-bodied Bee-Fly.* Tab. 58. Gaz. 149. 12, 13, 14, 4, 5, 9. *Musca Apiformis Surinam.* corpore cœruleo. This has darkish wings, clouded in the middle; the lower part of its body blueish; but the upper part of the legs are red, with spots of the same about the head and shoulders. This and the last hatched from silk-bags, whose grubs fed on the Square-Bean tree.

5. *The Grass Bee-Fly.* Tab. 22. Gaz. 143. 14, 15, 16. *Musca Apiformis Surinam.* ex atro sulphurea. This black and yellow fly hatches a smooth red caterpillar, with green and white streaks; feeds on Grass: it turned into a silk-bag Aug. 10. and hatched the 24th.

6. *The Common Surinam Wasp.* Tab. 54. Gaz. 148. 15, 16, 17, 10, 11, 12, 13. *Vespa vulg. Surinam.* niger, zonis luteis. These are very troublesome to the inhabitants, and commonly build in their houses.

7. *Surinam Wasp-Fly.* Tab. 60. Gaz. *Musca bipennis Vespæ* facie. These resemble our common English sorts. N. B. The coffin, and its very hairy strange large caterpillar, which our authors say these flies came from, I am of opinion, produces a much larger insect.

8. *Buff Wasp.* Tab. 1. *Vespa Surinam.* fulva.

9. *Brown Wasp.* Tab. 60. *Vespa fusca,* Marybonse *Surinamensis* dicta. These are very vexatious to the inhabitants, abroad and at home, as also to the cattle: they are hatched from a small white grub.

10. *Flying Ant.* Tab. 18. *Formica Surinam.* alata. Gaz. 142. 19, 20.

11. *Naked Ant.* Tab. 18. *Formica major vulgaris.* These are so great devourers of the leaves of trees, and particularly the Guava, that in one night they will make them as naked as a broom. They have a peculiar way of quickly conveying themselves from one tree or bough to another, after this manner: The first ant fastens its teeth into the twig of a tree; the rest cling to one another's tails, after the manner of a chain, and so long as to reach the next tree by the help of a wind, which is there seldom wanting. These prey also on all insects, but have a peculiar enmity to the spiders, with whom they have often great conflicts: they make large cells in the ground, sometimes to the depth of eight feet, and large nests on the branches of trees, with such art

that no weather can offend them: from these they march but once a year, and then make a general forage. Their eggs, or rather gentles, are much coveted and eaten by the poultry, which fattens them beyond oats or barley.

12. *Surinam Harp-Fly.* Tab. 49. *Lierman Belgis.* Cicada *Surinam.* vulgaris facie. The Dutch call this *Lierman*, because the music it makes is like that of a harp. It is a swift flyer, and difficult to be caught. It has a green body, with a long stiff proboscis, or snout, which it rests under its breast. This, from a slow hexapod, or six-legged grub, with the like snout and make of body, after it had lain twenty days dormant, hatched. Gaz. 147. 10, 11.

13. *Lantern-Cricket.* Tab. 49. *Lantern-Fly,* *Muf. Regalis Societat.* Tab. 13. p. 158. *Lanternaria major* alis eleganter pictis. Gaz. 147. 12. So called from the shape of its head, and the light it carries in it; are about four inches long, of which the lantern is one and a half; the last finely marbled with flesh-colour, green, and yellow; the wings also elegantly painted with much the same colours, and black nutmeg-veins. These make a noise in the night, and shine then only: they are pretty frequent in this island.

14. *Sky Lantern-Cricket.* Tab. 49. *Lanternaria minor* alis translucidis. This is less than the last, viz. three inches long; the wings transparent, and body greenish; the lantern finely marbled, as the other.

15. *Broad-shouldered Green Mantis.* Tab. 27. *Mantis Surinam.* viridis, humeris latè expansis. Gaz. 151. 4. The body of this three inches long, and the wings, stretched, above four: from its head to the body it is largely extended on each side, with a membranaceous flap, which, with its wings, &c. are mostly green. This hatches a caterpillar-like grub, which turns into a straw-like swaddled tail-coffin, which produces a large tun-bodied, wingless, green insect, which perhaps is the other sex to that above.

16. *Great Water-Scorpion.* Tab. 56. *Scorpio aquatica Surinam.* maxima alata, G. 149. 10. The body three inches long, and the wings extended six; the under wings transparent; the upper, and whole body, brown. This has a large horn in his forehead, and each foot ends single-tined.

17. *Naked Water-Scorpion.* Tab. 56. *Scorpio aquat. Surinam.* maxima impennis. This is somewhat less than the last, and is confined to the water, having no wings; its body swathed: the toes differ from the other, being (as the figure expresses it) forked. Both these live on young frogs, &c. Gaz. 150. 1.

CAP. V. SHEATH-WINGED INSECTS,

As BEETLES of various Kinds.

18. **S**urinam *Stag-Beetle.* Tab. 48. *Cervus volans maximus,* vaginis è fusco & fulvo mixtus. Its horns much resemble our English kind; but its feelers are wholly geniculated, the angles of its shoulders sharp-pointed, and the whole body much larger: if rightly painted, the sheaths are chestnut and tawny. Gaz. 147. 13, 14, 15, 8.

19. *Great Tricolor Surinam Goat-Chaffer.* Tab. 28. *Capricornus maximus* è nigro, rubro flavoque eleganter pictus. G. 151. 7. This very beautiful beetle is three inches long, exquisitely marbled with black, red and yellow; his fore-legs above six inches; his horns above five, elegantly knot-jointed. N. B. This, if not the same, is of that species, which the Muf. Reg. Soc. Angl. hath given a figure of in Tab. 13. Pag. 163. described under the American title of *Noconaca*.

20. *Greater Reddish Surinam Goat-Chaffer.* Tab. 24. *Capricornus Surinam.* major rufescens. G. 143. 17, 18, 19. Three inches long, and deeper coloured than the next.

21. *Lesser Reddish Surinam Goat-Chaffer.* Tab. 24. *Capricornus Surinam.* minor rufescens. Ib. Shorter than the last by half an inch. Both grubs are pretty large, and whitish; found in rotten wood.

22. *Yellow-spotted Goat-Chaffer.* Tab. 24. *Capricornus niger Surinam.* maculis flavis. Ib. The mite-worm of this feeds on the roots of the Prickly Yellow Poppy, and grows into an orange-coloured grub, with a black head and tail. Ib. 20.

23. *Great Black Surinam Piper.* Tab. 48. *Curculio Surinam.* maximus nigrescens. G. 147. 14, 15. Is one of the largest of its kind, being near three inches long, black and streaked. The mites of this grow into a large whitish grub or cofs, which the Dutch call Palm-worm, from its feeding on that tree: these the natives broil and eat, esteeming them as a very great dainty.

24. *Black Batata Comber.* Tab. 50. *Peñinariu Surinam.* medius, niger. This beetle is about an inch and a half long, with horns which end toothed like a comb, as in our English chaffers, &c. These produce grubs, as the next. Gaz. 147. 18, 19.

25. *Large Golden Saw-Horn.* Tab. 50. Gaz. 147. 16, 17. *Serra-cornu max.* Surinam. è viridi aureo refulgens. This is a very beautiful beetle, greenish, with a golden lustre: it is three inches long. The horns of this tribe are finely notched on one side only. The grub is large, and somewhat hairy, and when confined will gnaw their way through baskets, &c. Both these feed on the Batata root.

26. *American Cock-Roach.* Tab. 1. *Kakkerlaca Belgis,* *Blatta Surinam.* vulgarissima & exitialis. Gaz. 140. 1. 1. 1. Are greedy devourers of all sweet things; much delighted with the fruit of the Pine-Apple: very pernicious in houses, eating clothes, linen, &c. much resemble, in make and mischief, those on ship-board.

27. *Black Lady-Cow* with a red Back. Tab. 2. *Scarabeolus Surinam.*

Surinam. niger, dorso rubro. Gaz. 140. 18. 6. A very small black beetle with a red back; frequently found amongst Cochineel; said to destroy that insect: it hatches a little red worm, which clothes itself with a very thin silk-bag.

C A P. VI.

INSECTS, whose Wings are Part Sheathed, with Membranaceous Tips, as BUGS.

28. **G**reat *Cannacore* Bug. Tab. 41. *Cimex major prunicus* Surinam. *ex aureo eleganter striatus.* G. 146. 25. 26. 22, 23, 24. A very elegant insect: so is its caterpillar, viz. yellow and green studded with red hairy heads; the body square; the feet and belly covered with a clear thin skin; so that it slides like a snail. This turned into a yellowish silk-bag July 22. and hatched August 23.

29. *Surinam* Capricorn-Bug. Tab. 21. *Cimex Surinam. maculis rubicundis.* G. 150. 7, 8. The cadus, or worm, of this is green; with a yellowish head, and nestles in a *phryganium*, or straw coffin: June 10. it hatched into a brown bug, marked with red and white spots in the midst of each upper wing; its horns knot-jointed, like a goat-chaffer.

30. *Surinam* Tine-Claw. Tab. 21. *Musca Surinam. pulchrè variegata, pedibus chelosis.* G. 150. 9. A pretty odd-shaped fly; its two hinder feet not unlike crabs claws; the upper pair very slender and forked, by which it hangs to stalks, &c. the horns long-jointed and slender. This produces a tufted, short-haired, dark caterpillar, speckled with red and white, which changed into a silk-bag the 4th of June, and hatched the 14th.

C A P. VII. SPIDERS.

31. **G**reat *Namdu*, or *Hairy Spider.* Tab. 18. *Araneus max. hirsutus Americ.* G. 142. 21. The body three inches long, and very hairy, as are its legs, which are rateably thicker than long: each toe is saffron-tipt, and ends in one claw: it has eight eyes, which are plainly discernable; its silk-bag very large. These frequent the Guava trees, and prey on the Ants which come in their way, and like them change their skin: when these are scarce, they prey on small birds, as Colobritgens, or Humming-birds, which they kill by sucking out their blood and moisture.

32. Buff Prickle-haired *Surinam* Spider. Tab. 18. *Araneus fulvus Surinam. pedibus aculeatis.* G. 142. 22. Larger than the biggest English; buff colour, with eight eyes, and hairy prickled legs: it spins a circular web, like ours, and carries its silk egg-bag under its belly.

33. Silver-backed *Surinam* Spider. Tab. 18. *Araneus Surinam. pedibus pilosis, dorso argenteo.* G. 142. Painted with a silver back, and white body; hairy legs: his web like the last.

34. FIRE-FLIES. I took several in July. I take them to be a Glow-Worm Volant; their lustre is placed as in a Glow-Worm. Kill the fly (as I have done) and you find the *scintilla* a small jelly-like substance, which, separated into atoms, gives still, in the dark, a lustre proportionable to the magnitude of each atom.

I saw *Butterflies* Eggs that were testaceous, and near as big as a Wren's, most sumptuously studded with gold and silver. At Rhode Island the mowers find them in the grass: they hatch in the windows, and are a sport for children.

M. Du Verney's * DISCOURSE on the GENERATION of SNAILS and WORMS,

In the Royal Academy of Sciences, in Nov. 1708.

From the *Mercure Galant.*

THE variety of this discourse could not but please, since it throws the greatest artists into an agreeable surprise, as he explains what relates to the two ordinary kinds of Snails, and what has relation to Snails and Worms. Even those, to whom these matters are less familiar, will find their imaginations pass from object to object, all very engaging, by the singularity and novelty of the fact; for this subject, though already handled, is quite new in him, on account of the exactness of his observations, very different from those. Indeed, the structure and the use of these parts, ordained for the production of these animals, including something very surprising in Physicks and Mechanics, he begins with shewing that these reptiles are hermaphrodites, and have each the parts of both sexes.

Besides these parts, they have each a sort of shaft, which incloses a sting shaped like the end of a lance, with four wings: this they dart mutually one against another: its use cannot be certainly determined; but one may suppose, that pricking thing is to give notice, that that which approaches them is in the necessary disposition of the species. We shall only say, that by the observation he has made, he has come to a nice determination of those parts that are proper to the male, and to the female: from which he draws several consequences favourable to the opinion of the

* Messrs. Homberg and Ponport assert, that Ground-Worms are hermaphrodites, or of both sexes, capable of being father and mother, viz. to perform the operation of both sexes at once, in pairs or units; and that all Snails, Land and Water, are hermaphrodites.

Petiver's Memoirs for the Curious, July and Dec. 1708. pag. 197. and 372.

the moderns; as, for instance, that the eggs of the female are not immediately fecundated at the ovarium and the tube, because in Snails of both kinds the fecundation is not made by means of blood and spirits. He talks also, on this occasion, of Earth-worms, which are not only hermaphrodites, but are doubly so; inasmuch that each of these insects is twice male and twice female.

He observes also, that the Grey Garden-Snail, those of the Vine, the Dew-Snail, and Earth-Worm, join differently for the production of their species; that they almost always chase the night for their junction, which differs as to its duration: that of the Grey Garden-Snail lasts at least ten hours; whereas Vine-Snails and Dew-Snails are joined but a very little while, in comparison of the others.

The spawn of the Snail is animated before it enters into the uterus; and the animalcula shut themselves up in an egg, which grows in proportion as they advance in the channel which composes that part. These animals lay their eggs by the place where they were fecundated, which is at the right side of the neck: they generally lay threecore, and threecore and ten eggs; by an amazing artifice.

When the Snail is ready to lay, it withdraws into some fresh and moist place, and there opens the earth with its snout, in the same manner as hogs; so that the hole is no larger than is necessary for it to put in its head and neck: and when this hole is a little deep, it makes use of its slimy substance to throw out the earth. This hole resembles an oven; the sides of which are hard, either through the animal's pressing the earth with its head, or its scattering a slime which binds the parts of it together.

It is in this hole that it disposes of its eggs, by stretching out its head and neck: they are often found placed one upon another in the form of a loaf, and stuck together with a sort of glue; then it closes up the mouth of the hole with earth, which it dilutes with the slimy froth that comes from it; and this it does so artfully, that it is very hard to find them.

Ray's Method of ENGLISH PLANTS Illustrated,

In a Letter to Mr. S. D.

S I R,

Your command is a sufficient apology for any thing in my power to attempt. I am convinced the task will be acceptable to all who have the least inclination to know English Plants; a science absolutely necessary towards the accomplishing Physicians, Apothecaries, Surgeons, Chemists, &c.

SECT. I. BLINK FLOWERS.

Mr. Ray names this tribe, *Herbæ flore imperfecto, seu stamineo*, (i. e.) such herbs as have imperfect or stameneous, husky, thready, or blinking flowers. Hist. Plantar. 154. Synops. 28. edit. 2. p. 52. Method. 65. auct. 17. Dale 130. Supplement. 59. Elements de Botanique 402. Institut. Rei Herbariæ 501.

As the green leaf of any plant in Latin is called *Folium*, and in Greek *Phyllon*; so the coloured leaf of the flower is by the last named *Petalon*; therefore Mr. Ray, and our modern botanists, have for the generality distinguished most plants by the number of their petals, or flower-leaves, viz. *Plantæ, flore monopetalæ, dipetalæ, tripetalæ, tetrapetalæ, pentapetalæ, hexapetalæ, polypetalæ*, (i. e.) Plants having one, two, three, four, five, six, or more leaves in each flower.

But this tribe for the generality has none, and may therefore not improperly be termed *Herbæ flore apetalæ*; having, instead of flower-leaves, only a foliaceous calyx filled with *stamina*, or rather (which are more obvious) *apices*, whose prolifick *farina*, falling into the matrix of the style, or *pistillum*, makes it fertile. This often happens here in different plants; and then they are distinguished as Male and Female, viz. in Hops, Hemp, and Mercuries. Antient writers called the seed-bearing the Male plant, because they generally grew testiculated; and the barren, the Female; which Gerrard justly censures in his chapter of Hemp, p. 572. where he says the Female Hemp being barren, and without seed, was contrary to the nature of that sex.

Others there are, Androgenous or Hermaphroditical, viz. in different parts of the same plant; as in Nettles, Spurges, Docks, Sorrel, &c. This I have often observed in Juliferous trees, whose catkins and flowers are very distinct and separate.

Buck-Wheat, Arsmart, Bistort, Burnet, Plantane, Knawell, and Knot-Grass, seem to have coloured calyces, if not flowers.

The following scarce obvious, viz. Pond-Weed, Orrach, Blites, Beats, Pellitory, Ladies-Mantle, Golden Saxifrage, Glass-Wort, Rupture-Wort, &c.

SECT. II. LACTU-KINS; from *Lactuca*, Lettices. Ray H. Pl. 217. Method. 70. auct. 29. Synops. 41. ed. 2. p. 69. Dale 151. Suppl. 50. El. Bot. 372. Inst. R. H. 467. Hist. Oxon. sect. 7. p. 56.

These plants are for the most part like Lettices, viz. milky, with a double flat yellow flower, and downy feed. Ray styles this tribe, *Herbæ flore composito, Natura pleno lactescens, seu Planipetalæ lactescens*; and Tournefort, *Herbæ flore semisculoso, pappis instructo*. Of this class we find not many different families, though some of them pretty numerous, particularly the Hawk-Weeds: the rest are Hares-Lettices or Sow-Thistles, Golden Lung-Wort, Dandelion, Mouse-Ear, and Goats-Beard: to these are added Succory and Nipple-Wort, which two last have solid feed; the rest downy, as is frequently to be seen in the heads of Dandelion, by many called Pissabeds,

Piffabeds, and some Go to bed at Noon, because it then shuts up its flower, and turns to a downy head of fluffy feed, which are carried about with the wind.

SECT. III. DISCOID FLOWERS. Ray H. Pl. 259. Method. 74. auct. 32. Synopf. 47. ed. 2. p. 78. Dale 158. Suppl. 65. El. Bot. 383. Inf. R. H. 481. H. Ox. f. 7. p. 85.

These Mr. Ray calls *Herbæ flore discoideæ, seu papposo*, and divides them into,

1. *Flore radiato*, Radiated Discoids, viz. Colts-Foot, Golden Rod, and Rag-Wort.

2. *Flore nudo*, Naked Discoids, as Butterbur, Groundfell, Plowman's Spikenard, *Eupatorium* or Dutch Agrimony, Cats-Foot, and Cud-Weed.

The naked discoids are rimmed with small pentapetalous flowers (as are the radiated) in the middle; and it is these only that produce the downy feed.

SECT. IV. CORYMBIFEROUS and KNOB FLOWERS. Ray H. Pl. 333. Method. 77. auct. 35. Synopf. 56. ed. 2. p. 90. Dale 172. Suppl. 78. El. Bot. 392. I. R. H. 490. H. Ox. 14.

These tribes differ little from the last, but in having solid feed. These Ray also, in his Correct Method, divides into Radiated and otherwise. Amongst the first are Carline, Corn Marygold, Ox-Eye, Sneezewort, Yarrow, Fetherfew, Great and Small Daisy, Chamomile, May-Weed.

2. Naked Corymbs are Tansey, Sea Cud-Weed, Wormwood, Southernwood, Mug-Wort, and *Cannabina*, or Hemp Agrimony.

3. Knob Flowers. These he calls *Herbæ Corymbiferis affines*, being such plants as come next of kin to the last. Here are ranked Scabious; *Dipsacus*, Fullers Thistle, or Teasel; and Eryngo, or Sea-Holly: to these I think *Bardana*, or Burdock, may not improperly be added.

SECT. V. CAPITATED PLANTS. Ray H. Pl. 298. Method. 80. auct. 40. Synopf. 52. ed. 2. p. 85. Dale 166. Suppl. 71. El. Bot. 349. I. R. H. 440. H. Ox. f. 7. p. 130.

These, out of a scaly head, bear a double flower, composed of jagged pipy petals, yielding a downy feed like the second and third tribes. Ray terms these *Herbæ flore ex flosculis fistulosis in longas plerumque lacinias divisas*, five Capitata; and Mr. Tournefort, *Herbæ flore flosculosa*.

Under this head come the numerous and various sorts of Thistles, and *Jacea*, or Knap-Weed, Blue-Bottles, Bastard Saffron, or *Carthamus*, and Saw-Wort.

The milky quality, and flat yellow flowers of the Lactu-Kins, chiefly distinguish them from this tribe, which are for the most part purple, and always pipy.

SECT. VI. UMBELS. Ray H. Pl. 406. Method. 86. auct. 47. Synopf. 101. ed. 2. p. 63. Dale 192. Suppl. 93. El. Bot. 253. I. R. H. 304. H. Ox. f. 9. p. 266.

Mr. Ray calls these *Plantæ Umbelliferæ*; and Mr. Tournefort, *Herbæ flore polypetalæ, rosaceo umbellato*.

The character of an Umbelliferous Plant, is to bear its flowers and seeds in form of an inverted umbrella, being somewhat hollow. The flowers are generally composed of five petals, succeeded by a double feed, commonly furrowed, which easily splits in two when ripe.

This being a numerous family, we will thus tribe them.

1. Such as have flat, round-winged feed, are the Garden, Wild, and Cow Parsnep; *Pucedanum*, or Hogs-Fennel; and *Tordylium*.

2. Long-feeded, viz. *Pecten Veneris*, or Shepherds-Needle, Cow-Weed, Wild Chervil, and *Mcum*, or Spiguel.

3. Short feeds are Water Angelica and Gout-Weed; *Hippocistidium*, or Alexanders.

4. Bulb Umbels. *Bulbocastanum*, or Pig-Nuts; Water Drop-Worts.

5. Small-furrowed feed. *Amonum*; *Selinum*, or Hone-Wort; *Sium*, or Water-Parsneps; Burnet and Meadow Saxifrage; Caraways; Scotch and Rock Parsley; Smallage; Water and Common Hemlocks; *Critibum*, or Sampire, and Fennel.

6. Hoary feeds. Garden and Wild Carrots; Mountain and Bur Parsley, or *Caucalis*; *Critibum spinosum*, or Prickly Sampire.

7. Miscellany or Tag-Umbels are Coriander, *Perfoliata* or Thorough-Wax, Hares-Ear and Sanicle.

SECT. VII. STARFOILS. *Herbæ Stellatæ* Ray H. Pl. 477. Method. 92. auct. 54. Synopf. 73. ed. 2. p. 116. Dale 216. Suppl. 105. El. Bot. 92. Inf. R. H. 113. H. Ox. f. 9. p. 326.

The leaves of this tribe are disposed star-wise, at certain distances round the stalk: their flowers are divided into four leaves, each generally producing two feed testiculated, or joined together. There are not many of this elegant family: the chief are Clivers, Madder, Cross-Wort, Woodroof, Ladies Bedstraw, and Squirancy-Wort.

We have as yet observed but fifteen of this class in England.

SECT. VIII. CLYPEANS. *Herbæ Asperifoliæ* Ray H. Pl. 487. Meth. 94. auct. 56. Syn. 72. ed. 2. p. 118. Dale 220. Suppl. 108. El. Bot. 109. I. R. H. 133. H. Ox. f. 11. p. 436.

Named *Clypeans* from the disposition of their feed, four standing together, with a pointel in the middle, resembling a (*clypeum*)

shield, or buckler: their flowers are whole at bottom, but at top pentapetalous, (i. e.) more or less divided into five leaves or jags: the leaves are generally rough, (whence Mr. Ray's denomination) and hold no order along their stalk. Of this tribe also we have not seen above fifteen or sixteen in all Britain: the most noted are Hounds-Tongue, Wild and Vipers Buglofs, Grommel, Cumfry, and *Myosotis*, or Scorpion-Grafs: the more rare are the Wall, the Sea, and small Wild Buglofs, or German Mad-Wort, with the *Pulmonaria maculosa*, or Buglofs Cowflip.

SECT. IX. WHIRL-PLANTS. *Herbæ Verticillatæ* Ray H. Pl. 508. Meth. 96. auct. 58. Syn. 122. ed. 2. p. 77. Dale 226. Suppl. 112. El. Bot. 146. I. R. H. 177. H. Ox. f. 11. 352.

These are termed Verticillated Plants, because their flowers are set in Whirls, either in a spike, or at certain joints or distances round the stalk.

The flowers of this tribe are monopetalous, but divided into five unequal sections, which for the most part are either labiated, (i. e. full or blubber lipped) or galeated (hooded). The *perianthium*, calyx, or husk, of each flower, is regularly quinquefid (or with five equal sections) which serves for its feed-vessel, yet always keeps open: in the bottom of each are contained four seeds, which, in all I have yet observed, lie level (flat) one with the other.

This is a very numerous tribe; and most of them are plants endued with volatile and sulphureous particles, and consequently of very powerful force and virtue: their smell generally between carminative and aromack, and commonly perceived only in the leaves, flowers and husks, but most particularly in the last, as I have very often nicely observed, and believe this hitherto-neglected part to be most prevalent, because I generally find it to be somewhat, more or less, unctuous and clammy, and therefore more capable of yielding a rich sulphureous oil than the other parts, even the flower, which, though it has got hitherto the greater esteem amongst the inconsiderate, yet only deduces its faint smell from the more powerful one of the calyx, or husk.

For example, if you nicely examine the calyxes, husks, or flower-cups, of the *Horminum* or Clary, you will find them strongly endowed with a sort of clamminess, which is no less than its rich sulphur or essential oil, and no where else to be found so strongly impregnated as in this part; the truth of which you may also very apparently find, if you please to make a distillation of the flowers and husks apart.

The most noted of this celebrated family, that grow wild with us, are the several sorts of Mint and Thyme, Penny-Royal; Black, White, and Water Horehound; *Origanum*, Wild Clary, Nepp, Betony, Self-heal, Basil, Archangel or Dead Nettle, Ground Ivy, Calamint, Ground Pine, Bugle, Woodfage, *Scordium* or Water-Germander, and *Cardiaca* or Mother-Wort.

N. B. The roots of none of this genus have any fame in physick, or are endowed with that forcible smell which is to be found in the parts above ground.

SECT. X. HERB-BERRIES. *Herbæ Bacciferæ* Ray H. Pl. 652. Synopf. 94. ed. 2. p. 145. Meth. 106. auct. 73. Dale 262. Suppl. 137. El. Bot. 67. I. R. H. 76. H. Ox. f. 13. p. 519.

By these our author means such herbs, whose fruit when ripe have a moist pulp, covered with a thin skin.

Such are the White and Black Bryony, Herb Christopher, Butchers-Broom, Solomon's Seal, Lilly of the Valley, Herb Paris, Bitter-Sweet, Common and Deadly Nightshade, Asparagus, Moss-Berries, and Moscatel: to these may be added the Raspberry, Brambles, Cloud-Berries, and Dwarf Honey-Suckle, or rather Suckle-Berry.

SECT. XI. BUR-HEADS. *Herbæ sem. nudo-polyspermæ* Ray H. Pl. 578. Syn. 85. ed. 2. p. 134. Meth. 85. auct. 67. Dale 247. Syn. 129. El. Bot. 238. I. R. H. 275. H. Ox. f. 4. p. 433.

This section is part of Tournefort's *Herbæ flore Rosaceæ*.

Ray, in his Improved Method of Plants, divides this tribe under the following heads, viz.

1. Burheads with Tripetalous or Three-leaved Flowers, viz. Water-Plantane and Arrow-Head.

2. Tetrapetalous Burhead, or Tormentil, which differs from the Cinquefoils only in having one petal less.

3. Cinquepetals, as Crow-Foot fifteen sorts, fix Avens, three Strawberries, nine Cinquefoils, and Meadow-Sweet.

4. Polypetals, or Many-leaved, as Pile-Wort, *Flos Adonis* or Pheasants Eye, and *Filipendula* or Drop-Wort.

5. Naked-flowered Burheads, according to Mr. Ray, are the Wood Anemone, Pasque Flower, and Travellers Joy.

SECT. XII. STAR-HEADS. *Herbæ Multifiliæ, seu Corniculatæ*, Ray H. Pl. 686. Syn. 98. ed. 2. p. 151. Meth. 92. auct. 76. Dale 273. Suppl. 144. H. Ox. f. 12. p. 453. El. Bot. 229. I. R. H. 262.

This class has so great an affinity with the last, that indeed they ought scarce to be parted. The heads of these are not so clustered, but approaching more pod-like, and generally flattened.

Of this family are the Common and several other Houseleeks, Orpine, Rose-Wort, Navel-Wort, Black Hellebore or Bears-Foot, Marsh Marygold, *Ranunculus Globosus* or Globe Flower, Star-Plantane, and *Juncus Floridus* or Water Gladiole.

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SECT. XIII. QUATER-PETALS. *Herbæ Tetrapetalæ* Ray Hist. 848. Syn. 119. ed. 2. p. 177. Meth. 119. auct. 94. Dale 305. Suppl. 160. *Herbæ flore Cruciformi* El. Bot. 178. H. Ox. f. 3. p. 295. I. R. H. 210.

These are easily distinguished from others, in having only four leaves in each flower.

Of this tribe are the Wall and Sea Stock-Gillyflower; Whitlow Grass; *Alliaria*, Jack by the Hedge, or Sauce alone; Sea Cole-Worts; Penny, Rock, Swine, and Wild Cresses; divers Cuckow Flowers, or Lady-Smocks; *Lepidium*, Dittander, or Pepper-Wort; Common, Tower, Mithridate, Treacle, White and Wild Mustards; *Myagrum*, or Gold of Pleasure; Garden, Horfe, and Water Radish; Base, Cress, Scrambling, Sea, Water, and Wild Rockets; Scurvy-Grass; Shepherds-Purse; *Sophia Chyrurgorum*, or Flix-Weed, and Woad.

N. B. There are of these about sixty English sorts, and near fifty of them have a biting mustard-like taste.

To these Mr. Ray subjoins the several sorts of *Veronica*, or Speedwell, as Paul's Betony, Hen-Bit, and other False Chick-Weeds, with three sorts of Brook-Lime; also the Bastard, Corn, Sea-horned, and Wild Poppy; Celandine, and divers kinds of *Lyfimachia*, as the Rosebay and Coddled Willow-Herb, or Loose-Strife.

Of these last, or *Anomalæ*, are near thirty sorts found wild in England.

SECT. XIV. CINQUE-PETALS. *Herbæ Pentapetalæ vasculiferæ* Ray Hist. Syn. 138. ed. 2. p. 198. Meth. 139. auct. 109. Dale 329. Sup. 200. El. Bot. 200. I. R. H. 234. H. Ox. f. 5. p. 45.

This genus treats of such plants whose flowers are divided into Five Leaves, and are succeeded by a husk, capsule, or dry seed-vessel, like the Dragon-Snouts; but differ from them in the shape of the flower, these being more or less divided into five equal angles or sections.

The angular, or less-divided, are the *Convolutuli*, or Bind-Weeds; Gentian, or Fel-Wort; *Campanula*, or Bell-Flowers, and Hen-Bane.

The others are very numerous, and may be divided between such whose leaves grow opposite, (as Pinks; *Lychnis*, or Campions; Dwarf Cistus, St. John's Wort, St. Peter's Wort, and Tutsan; Pimpernel, Centaury, Yellow Loose-Strife, various sorts of Stich-Wort and Chick-Weed) and

Such whose leaves grow alternately, or in no set order; as several bicapsular Sedums, Sengreens, and Pride-Flowers; also Buck-Beans, Cowslips, Flax, Money-Wort, Mullein, Sun-Dew, Wood-Sorrel, &c. To these may be added the Cranes-Bills; Common, Marsh, and Vervain Mallow; Rampions and Throat-Wort.

SECT. XV. SIX-PETALS. *Plantæ Hexapetalæ*.

Dr. Morison, in his Hist. Plantar. Oxoniensis, sect. 4. p. 229. calls these *Hexapetalæ tricapulares*; Mr. Ray, *Herbæ radice Bulbosa*, Hist. Pl. p. 1104. Method. 151. auct. 114. Synopf. 163. ed. 2. p. 228. Dale 352. Suppl. 220.; and Dr. Tournefort, *Herbæ flore Liliaceæ*, Institut. Rei Herbariæ, clas. 9. p. 343. El. Bot. 285.

The roots of these are generally coated like Onions, or scaly as Lillies; and for the most part have grass, flag, or rush-like leaves, with six regular petals in a triangular husk or seed-vessel, as Onions, Garlick, Ramsons, Daffodils, *Ornithogali* or Bethlem Stars, *Hyacinthi* or Hare-Bells, True and Meadow Saffron, &c. Of these in England we have not as yet found a score.

SECT. XVI. BULB-KINS. *Herbæ Bulbosæ affines* Ray H. Pl. 1179. Meth. 156. auct. 121. Syn. 168. ed. 2. p. 233. Dale 358. Sup. 230. *Plantæ multicapulares polyspermæ* H. Ox. f. 12. p. 486. *Herbæ flore polypetalæ anomala* Inst. R. Herb. clas. 11. p. 419. El. Bot. 332.

Mr. Ray having placed these next to the last, from some affinity they have to them, we have therefore given them the name of Bulb-Kins; and, though some of them have stringy roots, yet many others have them knobbed, large, and fleshy. What chiefly distinguishes them above ground is their difform flowers, in opposition to the last: amongst these are a great variety of Iris or Flower-de-Luces, Orchises, and others a-kin to them, amounting to somewhat more than forty English species.

SECT. XVII. DRAGON-SNOUTS. *Nastifloræ* Ray Hist. Pl. 752. Meth. 117. auct. 89. Syn. 104. ed. 2. p. 159. Dale 287. Sup. 156. I. R. H. cl. 3. p. 158. and cl. 11. 418. El. Bot. 130, 332.

These having, like the last, an irregular or difform flower, and many of them either snouted, hooded or heeled, with undeterminate seed, inclosed in one or more receptacles, contrary in both respects to the Whirl-Plants, Sect. IX. for these reasons, and from the generality of the shape of their flowers, I have denominated them as above, and disjoined them from Mr. Ray's *Herbæ fructu sicco singulari, flore monopetalæ uniformi*, Hist. Plant. 710. Meth. 114. auct. 84. Synopf. 101. ed. 2. p. 155. because these flowers are difform; and from the Bulb-Kins, they having a different face.

Amongst our English Dragon-Snouts, we reckon the Toad-Flax, Fluellin, and Snap-Dracens; Fig-Wort, Fox-Glove, Butter-Wort; *Pedicularis*, Rattle, Cockscorn, or Loufe-Wort; Eye-Bright and Cow-Wheat; *Baliumina Lutea*, Quick-in-Hand; Hooded Milfoil, and Violets. To these some add *Arum*, or Wake-Robin; *Reseda*,

Base Rocket; *Luteola*, Wild Woad; *Sesamoides*, or Spanisht Catch-Fly; Fumitory and Columbines.

SECT. XVIII. PEA-BLOOMS. *Pisifloræ. Herbæ flore Papilionaceæ, seu Leguminosæ*, Ray H. Pl. 883. Syn. 127. ed. 2. p. 186. Meth. 129. auct. 101. Dale 315. Tourn. El. Bot. 307. Inst. R. Herb. cl. 4. 388. Hist. Ox. sect. 2. p. 45.

Valerius Cordus, that early and accurate botanist, who died 1544. was the first I have hitherto read of, that called these flowers *Papilionacei forma*, because they resemble some Butterflies when they fit with their wings expanded; which Mr. Ray and others have since followed.

This tribe consists of such herbs as are Scandent, or otherwise. The Scandent, or Tendril-twining, are Common and Everlasting Pease; Chichlings; *Aphaca*, or Yellow Vetchling; Tares, Vetches, and Lentils.

Those that climb not, are the Garden and Horfe Beans; Common and Wild Liquorice; English Orob; Wild Pease; Crimson Grass-Vetch; Kidney, Horfe-Shoe, and Medick Vetch, or Saint-Foin, and Birds-Foot.

The Trifoliate are near twenty sorts of Clover-Grass, besides *Anonis*, Rest-Harrow, or Cammoche; Medicks and Coddled Trefoils. Of these Pea-Blooms we have in England about sixty kinds.

SECT. XIX. CORN and GRASS. *Cerealæ. Herbæ Graminifoliæ flore imperfecto, seu Culmiferæ*, Ray H. Pl. 1235. Syn. 177. ed. 2. p. 244. Meth. 147. auct. 167. Dale 376. Suppl. 247. *Herbæ flore apetalæ, quæ Cereales appellantur, earumque affinis*, Inst. R. H. 512. cl. 15. El. Bot. 413. *Plantæ Culmiferæ, seu Calamiferæ*, H. Ox. sect. 8. p. 172.

Mr. Ray, in his Improved Method of Plants, has added a particular one of Grasses, Rushes, and Cyperoids, which, being one of the best extant, we shall chiefly follow.

Corns and Grasses he divides under two general heads, viz. either Spiked or Paniculated.

The First are Wheat, Barley, Rye, and their Grasses; Darnel, Pannick, Fox and Cats-Tail, with others near of kind. To these are added the Ramose-spiked, as Cocks-Foot, &c.

The Paniculated are Oats and their Grasses, Reeds, Millets, Cow-Quakes, and several Meadow-Grasses, that are best distinguished by their particular descriptions and figures; of which, if a certain reverend and learned person, very nice and curious in the knowledge and critical distinction of our own native plants, especially in these and others of the less-known tribes, would be pleased to publish the observations he has made, he would highly oblige all lovers of plants, and particularly our English botanists.

This Section consists of above an hundred several Corns and Grasses already discovered within this island of Great-Britain; and doubtless several still lie hid.

SECT. XX. RUSHY PLANTS. *Juncæ Plantæ. Herbæ Graminifoliæ, non Culmiferæ, flore imperfecto*, Ray H. Pl. 1291. Syn. 194. ed. 2. p. 263. Meth. 150. auct. 183. Dale 371. Suppl. 243. I. R. H. 527. cl. 15. El. Bot. 419. H. Ox. f. 8. cl. 20. p. 223.

Under this Section are not only ranked the Round-stalked Rushes and their Grasses, which bear seed in small three-cornered or round capsules; but also the Cyperus's and Cyperoids, which generally bring forth their seed in scaly or cone-like heads and panicles. Both these have three-square stalks: the Cyperoids have generally a catkin, or farinaceous *juli*, at the top of each plant.

Of these two plants and the rushes there are near an hundred several varieties in England, excluding the Bur-Reed, Cats-Tail, and *Calamus*, or Sweet-Flag, which by most botanists are here placed.

SECT. XXI. MISCELLANY PLANTS. *Herbæ Anomalæ & incertæ sedis* Ray H. Pl. 1319. Syn. 207. ed. 2. p. 278. Meth. 159. auct. 128. Dale 385. Suppl. 256.

This Section we throw in as a class of irregular or out-of-course plants, not easily reducible to the foregoing tribes: those Mr. Ray takes notice of are the Water Lilly, White Rot, Water Aloes, Water Star-Wort, Water Gladiolus, and Coddled Water-Grass, Pepper-Grass, Mouse-Tail, Milk-Wort, Dodder, &c. and, though some of these, with others not mentioned, might perhaps find places above, nevertheless such as you cannot readily reduce, we think, may not amiss be placed here, until a more fit class be found for them.

What remains, Sir, of herbs, are the Submarines, Mushrooms, Mosses, &c. They being very nice tribes, and daily improveable, I shall not here trouble you with them, in hopes they may see the light from an abler hand.

Mr. Ray's Method of TREES and SHRUBS.

THE first class this learned author files *Arbores Flore à Fructu sejuncto*, (i. e.) Trees whose Flowers and Fruit are separate; which I believe, upon strict examination, may require another epithet, especially many of them; as, for example, the Filbert and Hazle-Nut, the first of which, as I have often observed, come from a small flameous scarlet flower, as you may perceive in the spring before the leaves shoot out: these have not been taken notice of till of late years; for which reason they then presumed the *juli*, or catkins, which appear long before them, were the flowers;

flowers; and the fruit not coming in their places, might give the occasion of stiling this tribe as above.

I take these Juliferous trees to be for the most part hermaphroditical, (as some of the Herbs in Sect. I. pag. 160.) i. e. male and female within themselves; and that these catkins contain the fecundating substance in a very fine powder, which, when full ripe, you may observe by shaking to let fall, in a great quantity, a very fine dust or powder: these innumerable atoms, the all-wise Creator and Disposer of Nature, (who made nothing in vain) hath stupendously contrived in so great a quantity, that some of them might fall into these staminate flowers, their proper matrix, the wind fruitlessly dispersing the rest, so that perhaps not above one in ten thousand may chance to fall in its proper place.

His second class of this kind are the Coniferous, as the Fir, Pine, Alder, and Birch.

The third are Bacciferous, as Juniper and Yew.

The fourth Laniferous, or Downy, as Poplars and Willows.

The fifth are Foliaceous, or Leafy Seed-Vessels, as the Horn-Beam; to which may be added the Ash, Elms, and Maple or Sycamore.

His next general division of trees are such whose Fruit come in the same place with the Flower: these are subdivided into Coronated and Umbilicated, (i. e.) such, the remains of whose flower is seen either at the crown or stalk of the fruit.

The first, viz. the Coronated, he begins with the larger fruit, and descends to the lesser; as from the Crab, Wild Pears, Servise or Medlars, Rose, &c. to the Currants, Whortles or Bill-Berries, Wood-Bind, and Ivy.

The same method he takes with the Umbilicated Fruit, amongst which he ranks the Sloes, Bullies, Cherries, Barberries, or Pepperidges, Alder, Holly, &c. To these are added such as have a dry fruit, as the Bladder-Nut, Box, Lime-Tree, Gale; and to these Mr. Ray subjoins the Heath.

He concludes with the Papilionaceous, or Pea-Bloom Shrubs, which with us are only the different sorts of *Genista*, as the Broom, Dyers-Weed, Furze or Goss, and Petty-Whin.

Thus, Sir, have I briefly run through the several tribes of Herbs and Trees; which perhaps in time may be brought into a better method. In the interim, I hope you will accept of this, and believe me to be, on all occasions, S I R,

Your (much obliged, and) ready Friend to serve you,

J. P.

Some Attempts to prove, That HERBS of the same Class, or Make, generally have the like Virtue, and Tendency to work the same Effects. In a Discourse made to the Royal Society, by Mr. PETIVER, F. R. S. No. 255. May 10, 1699.

HAVING been asked what was the best method to discover the Virtues of Plants, I have found that plants of the same figure or likeness have generally much the same virtues and use; especially if we consider, that the organs or structure of all plants of the same family or class must have much the same vessels and ducts to consummate that regular formation, and consequently the juices circulated and strained through them cannot be very heterogeneous; and that commonly, the scent and taste having great affinity, so of course their virtue cannot be very dissonant.

1. For instance, the *Herbæ Umbelliferae*, or tribe of Umbelliferous Herbs. These Mr. Ray hath accurately treated of in the 9th book of his Hist. of Plants, pag. 406. and his Synopsis, p. 63. and in his 2d edition, pag. 101. and Dale in his Pharmacologia, pag. 202.

It is the property of these herbs to have the position of their flower-branches proceed from one basis or centre, which expand into an umbel, whose flowers consist of five irregular pentapetalous leaves, from whence their seed are produced, which are naked or double, or by their splitting seem so.

This genus I observe to be generally endowed with a carminative taste and smell, are powerful expellers of wind, and therefore good in all flatulent diseases, and of great use in the colick, &c. To instance a few for example, as Anise, Caraway, Cummin, Angelica, Smallage, Parsley, Lovage, &c.

Observe, that the seed of Umbels are most used, as in all those just mentioned; and the roots also of some are no less prevalent, viz. the Angelica, Fennel, Parsley and Smallage, and the leaves of the last.

2. Let us now look into another class, viz. the *Plantæ Galeatæ* and *Verticillatæ*, Raii Hist. Plant. lib. 11. pag. 508. Synops. 77. and Ed. 2. 122. The medicinal ones of this tribe are also treated of in Mr. Dale's *Manuductio ad Materiam Medicam*, pag. 230. These are a family of plants which bear their flowers in rundels, or whirls, at more or less distances round the stalk, whose monopetalous flowers (if we may so call them, being such at the bottom) are *tubulous*, contrary to the last, and are generally divided into five unequal segments, as the Umbels, but with this distinction, that the two greater *petala*, or flower-leaves, in this tribe are sometimes above, and other times below; whereas the others are constantly the same, that is, always lie in the same place, being expanded on a flat or plain surface: the flowers of our Verticillated plants, from the different position of their *petala*, are therefore distinguished under the *Floræ Galeatæ seu Labiatæ*. The *calyx*, or case, to the lower or tubulous part of each flower, serves also for its seed-vessel, in the bottom of which are contained, in all I have yet observed, four seeds set close together upon a plain, which Nature lets fall out when ripe, the husk being always open, and commonly divided into five points, adequate to the segments of each flower.

Now, as the greatest virtue of the Umbelliferous tribe was spe-

cified to lie in the seed, and next to them the roots; there are few or none, as I have yet observed, in this genus, famous for any extraordinary virtues or effects in those parts; but the sovereign balm of these chiefly consists in their leaves and husks, rather than the flowers; which last, especially, all authors have hitherto given the preference to; as for example, in the flowers of Rosemary, Lavender, and Sage, particularly the first, as the only part from which our best Queen of Hungary's water is extracted. I will therefore take this occasion to give my reasons for preferring that part which by all others has been neglected.

I would not be thought to propose this *hypothesis* for cheapness; for, if my assertion holds good, as I doubt not to prove it, I fear they will quickly sell the husks as dear as the flowers, if they find a great vend for them.

My reasons for giving the preference to the husks of this tribe, before the flowers, are, Because I observe the *calyces* are the chief, if not the only part on which I find its viscous or sulphureous particles to adhere. This you may very easily perceive, not only by its much stronger and penetrating smell, but by the clamminess of this, far beyond the other parts; as is very apparent in the Husks of SAGE and CLARY; and, if with spirit of wine you make a distillation of these alone, you will find them much stronger than from a greater quantity of flowers only, which, being of finer and more volatile parts, are only capable of retaining what the vicinity of the stronger and thicker texture, which the *calyces* are composed of, can without prejudice easily communicate to them.

I look upon the generality of this tribe to be a degree warmer than the last, and their heat consequently to approach nearer to the *aromate*, or spices, than the carminatives, and the effects therefore to be more peculiarly appropriated to such nervous diseases as are more intense, and the *Umbelliferae* cannot so quickly reach, viz. apoplexies, epilepsies, palsies, &c. in which cases our Lavender, Rosemary, Sage, Stachas, and some others, are simples which all our ancient physicians (in these stubborn diseases) have very much applauded. Yet at the same time we must not forget the many celebrated effects that are owing to some others of this family, as Mint, Bawm, Penny-Royal, Savory, Thyme, Hyssop, Marjoram, Basil, *Origanum*, Dittany of Crete, *Marum* or common Maltick-Thyme, with *Marum Syriacum*, and other, no less noble herbs of this family, that I have lately received from both the Indies; which I have also experienced in some cases with very good success.

3. We proceed next to those herbs which have a tetrapetalous regular flower, (by Regular I mean such as have four equal *petala* in each flower). These Mr. Ray treats of in his sixteenth Book of his History of Plants, and in his Synopsis *Stirpium Britannicarum*, pag. 108. and in his 2d edition, p. 164. under the title of *Herbæ Floræ tetrapetalo uniformi*; and by Mr. Dale in his Pharmacologia, under the same character, pag. 292. These, in relation to their seed-vessels, are sub-divided under two heads, viz. *Siliquosæ, vel Capsulatæ*, being such as have their seeds contained in long or short receptacles, as pods or capsules.

The known herbs of this genus, that are most commonly used in physick, are, the *Sinapi*, *Raphanus*, *Eruca*, *Alliaria*, *Paronychia* or Whitlow-Grass, *Sophia Chyrurgorum*, *Erysimum*, *Nasturtium*, *Cochleariæ utriusque*, with some others.

The most essential virtue and use of the herbs of this class, I observe, are more particularly in the leaves and seed, and next them the roots; and, if any parts are slighted, it is the flowers and pods.

The leaves are more particularly used in the Water and Garden Cresses, Sea and Garden Scurvy-Grass, Hedge-Mustard, *Iberis*, or Scitica Cresses, *Lepidium*, seu *Piperitis Officinarum*, Cardamine, *Bursa Pastoris*, &c. to which may be added our Cabbage, Coleworts, Savoy, Sprouts, &c. which are of this tribe also; and, though they are of no great reputation in physick, yet for some ages past they have got no small esteem in the kitchen.

Others of this family, that are more peculiarly eminent for the virtue contained in their seed, are the Common Mustard and Rape, the *Thlaspi Dioecoris* or Treacle-Mustard, the *Eruca* or Rocket, and *Sophia Chyrurgorum* or Flix-Weed. The seed of the last, I am informed by a worthy member of this society, hath for some years been used, by many in the North of England, for the Stone and GRAVEL, with success. The like hint, if I mistake not, Sig. Paul Boccone gives us in his late Italian book, entitled *Museo di Fifica*.

We come now to the Roots; two or three of which have gained no small repute, as well in diet as physick, viz. the Radishes, both Garden and Spanish, (which is the large Black-rooted;) as also the Wild or Horse Radish; and to these the Round and Long-rooted Turnep must be added.

Most of this tribe, I find, though hot like the *Umbelliferae* and *Verticillatæ*, yet exert their power in a much different manner, to wit, by a diuretick volatile salt, and are found most prevalent and effectual in chronick diseases, as the scurvy, dropsy, gout, jaundice, and other ill habits of the body, where the blood is vitiated rather in its particles than irregular motion, carrying off its impurity by a diuretick *discreasis*, or discharge of the offending heterogeneous salts therein contained; and consequently by purification, disposing of it to a better or more sane disposition.

Whether these conjectures agree with the opinion of some practitioners of physick, I know not; but I am certain the effects of many of these herbs, as Water-Cresses, Garden and Sea Scurvy-Grass, with Mustard-seed, and Garden and Horse-Radish, which are all of this family, are by most, if not all physicians, as well ancient as modern, allowed to be extraordinary diureticks and anti-scorbuticks.

Some Observations on WASPS, BEES, &c. by Mr. JOHN BANISTER, in Virginia, 1680. with Remarks by Mr. PETIVER.

1. *Vespa Ichneumones.* Here are divers kinds of Wasps, long and slender waisted. All these make their nests of dirt, and are called Dirt-Wasps: some make their nests contiguous, each adjoining cavity having two or more partitions: others build in clamps, one upon another: they fix them against the wall or ceiling of a house, or any where dry. There are not above two belonging to one of these vesparies; for when they have made one cell, and put into it six or eight live spiders, they close it up, to work upon another, leaving them to brood upon their young, something like that of Aristotle in his Hist. Animal. lib. 1. c. 20.

The young are cased with a thin transparent horny skin of an amber colour: others are in a brown case, with a certain number of regular protuberances at one end; some again lie in brown, that are smooth; and some, if I mistake not, naked.

2. We have several other coloured Wasps. Two black and white, that build their nests on the small branches of trees. Of the small nest there is a very good figure and description in Piso's Hist. of Brasil, lib. 5. p. 287. only as it seems to stand erect, it should be pendulous: of an oval form, and the size of a goose-egg. The other is much larger, and more round: the wasps also are somewhat larger. One I found, in shape and colour like our common English Wasp, whose little nest was half round (like the bell of a clock) fixed under the covert of a rotten log: these nests in colour resemble brown paper; only the last tends to a brimstone colour. Here are others brown with purple wings, and some with streaks of yellow under their bellies: these make their combs of the same matter, but naked without any cover: they choose the shelter of a house, &c. though I have seen them sticking in a bush. Here are also some philamot, with purple wings; and others large, black and yellow, with a mouth like a brieze or stout; and one red and black, without wings, whose sting is very long. This last is a very singular wasp, and the only one I have yet seen without wings; from Virginia, Carolina, and Maryland. I think it may not improperly be called *Vespa Virginiana impennis*, *ex nigro rubroque mixta*.

3. *Bombylius Terebo.* These Bees eat into timber, and there make their nests. This was in the joint of a house, so firm and found, that it was very hard entering with a piercer: the hole was just large enough for the bee to creep in at, and went right

up about two inches in the wood, and then in a transverse line at least half a foot on each side, which seemed to me (as I probed it with a knitting-needle) to be twice as wide as the entrance. How many bees belonged to it I cannot tell: three there were in, and I heard one or two about the door.

Mouffet, in his 6th Chap. de Propoli, p. 36. says there are four sorts of Hive-drofs.

4. *Musca carnivora Vivipara.* A small brown Fly, that extrudes live maggots.

5. * *Cicadae & earum exuviae*, Mouf. 130. Those insects that poisoned the trees in New-England were *Cicadae*, Phil. Trans. No. 8. p. 137. 1665.

6. *Cimices.* Wall-Lice. Another of our plagues: where there is not great care taken to destroy them, they are as numerous in our beds, as Cock-Roaches in our kitchens.

7. *Cicindela Mas.* The Fire-Fly. *Cicindela Mariana*, *vaginis teneris fuscis marginibus fulvis*, Aët. Phil. 246. p. 397. 16. This is not that great Virginian kind, whose head shines; nor is it that small one, which Piso says the Brasilians call *Memoa*; or the common kind, though much of that shape and size. This emits its light at two crescents; but the whole tail of ours shines, which it contracts and dilates at its pleasure. Its sheath-wings are of a dark purple edged with yellow; and so is its head or helmet.

8. *Cicindela Fæmina.* The Glow-Worm. Is armed, back and head, in joint armour, of a deep murray colour, fastened to the thorax: the tail made of nine shelly rings, in the last of which are visible the two shining points. Its head is black, so small, one cannot, without the help of a glass, perfectly discern the contexture of it. Its eyes (if it have any) like those of a Snail, stand on the tops of two horns. It has six legs.

9. The Holy Beetle, in the *Tab. Hieroglyphica*, mentioned by Mr. Gregory in his preface. Here are multitudes of them in summer. I have often inspected their rolling pellets, yet could not find any alteration in the mass of matter through their motion, till I met with one of these deserted balls: in the centre lay a small white grub. I since found, in one of these balls, two very little young beetles, differing from the old only in size.

10. *Scarabæus colore griseo, scapulis binis quasi oculis nigris mollioribus pubescentibus notatus.* A small Beetle, all black. Found among rotten wood; called a Snapper, from the noise it makes by thrusting part of its neck into its breast, and springing it back again.

* *The Cicada, or American Locust, which appears periodically in sixteen or seventeen Years, by Moses Bartram, 1766. to Peter Collinson, Esq; F. R. S. &c.*

June 8. 1766. I took several twigs of different trees, on which I saw Cicada's darting (as it is called) to lay their eggs in them: I put some in empty phials; in phials with a little water; and some I stuck in a pot of earth, which I moistened to keep the twigs fresh.—July 21. the eggs in the twigs in the phial with water hatched, as did those in the twigs in the pot soon after; but the twigs in the empty phial being withered, the eggs perished; yet I have observed, that one twig accidentally broke off in the woods, if they lie near the ground in the shade, so as to continue moist, they hatch; but in those exposed to the sun, die.—Those hatched in the phial, ran down the twigs to the water, on which they floated four and twenty hours, and then died. Those that hatched in the twigs in the pot, ran down immediately to the earth, and entered at the first opening they could find, which they searched eagerly for, as if already sensible of danger by being exposed to the sun.—I observed, that in the natural way the eggs are usually hatched in six weeks; but if, by the luxuriance of the growth of the shoots into which the eggs are darted, the rind of the tree closes and confines them, they will in that situation remain several months, till by some lucky accident they are disengaged; and then they will hatch in a few minutes after, and seek their retreat in the earth, in the same manner as those hatched in the usual time, but may perish by being so imprisoned.

Viewed through a microscope, the moment they are hatched they appear as perfect as at their last transformation, when they rise out of the earth, put off their scaly covering, expand their wings, display their gaudy colours, dart forth their eggs, and after a few days existence close the period of their lives by an easy death.

The means by which they are enabled to continue their species. The females are furnished with a bearded dart, with which they pierce the tender branches of any tree they light on, without regard to situation or species: many therefore perish by the quick growth of the trees in which the eggs are darted; more perhaps by being laid in twigs that hang over waters. The dart by which the operation is performed consists of three parts; a middle, and two sides: the middle is hollow, through which the eggs are darted; and the two sides serve for a covering to defend it: those may easily be taken apart by the middle through the grooves of the two sides; and it is by slipping the two side parts by each other rapidly, that they work a kind of a slant hole in the soft twig, till they reach the pith, and then inject twelve eggs into it: then they begin another hole close by the former, and work till they have finished two rows each, of twelve or more holes: they remove from twig to twig, till they have exhausted their store, after which they soon expire.

I have not yet discovered the full depth to which they descend:

some, I have heard, have been found thirty feet deep; I have seen them ten.

They do not go a great distance horizontally; for they are seldom found far from the woods, unless the ground has been lately cleared. It often happens, that in the long period of their topical state great tracts of land are cleared from trees, and converted into arable pasture: hence it is no unusual thing to see them quit their cells in those plain grounds, and hasten to some adjacent fence, to put off their incumbrance and prepare for flight.

This they do in the night, by crawling to some tree, fence, bush, or strong grafts.

It is remarkable, that they differ from every other insect in its chrysalis state: instead of being confined in a close cover to a certain spot till it bursts, they have a cover fitted to their form, in which they can travel, and which they cannot quit till they find some solid substance to fix their claws in; and then, with an effort which requires their utmost exertion, they burst their case, which always opens from the shoulders to the fore part of the head, out of which they crawl, leaving it sticking fast behind. Thousands of these cases may be seen in a morning, adhering to all parts of trees; which, being hardened in the sun, have a scaly-like substance, which, being inflexible after it is dry, often so incumbers them before they can quit it, that many perish in the attempt. For this reason they chuse the night for the operation, and wait the sun's enlivening influence to strengthen their wings, which at first are white, soft, and moist, but soon assume a dark-brown colour, with a firmness that enables them to fly, and a transparency that adds infinite beauty to their appearances.

It is remarkable, that in every state it is eagerly pursued for food: in the egg, it is the prey of ants and birds; in the grub, by hogs, dogs, and all carnivorous animals that can unearth it; and in its most perfect state, not only by many beasts and birds, but by men; many of the Indians feed sumptuously upon them.

Soon after they arrive at their last state of transformation, they seek mates to enable them to continue their species; and in this they are very singular: the female is furnished with a dart, the shaft of which takes its rise below the middle: on the contrary, the male projects his dart from behind, and fixes it near the shaft of the female, where it remains for many hours, during which time they are not to be separated without laceration.

During the season of copulation, from sun-rise to sun-set, the noise they make is so loud and perpetual, that little else can be heard in the wood where they abound: and it is doubtful, whether during the season, or during the whole time of existence in this state, they eat any thing, only by sucking the dew; for which purpose they seem to be furnished with a long tube, extending from their heads flat to their breasts, and terminating between their legs, without the power of altering its position: other than the tube, they seem to have none for the purpose of subsistence.

TAB. I





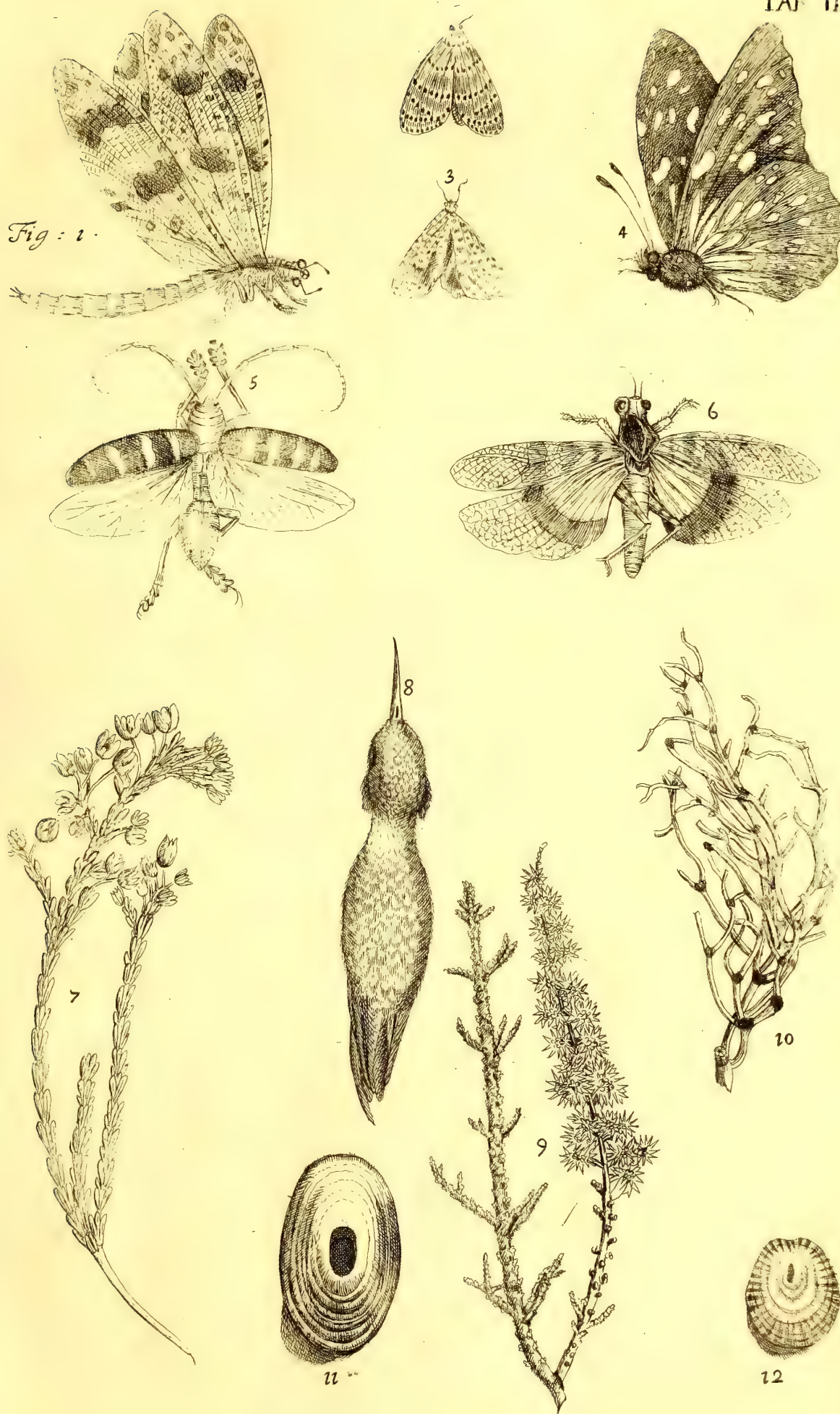


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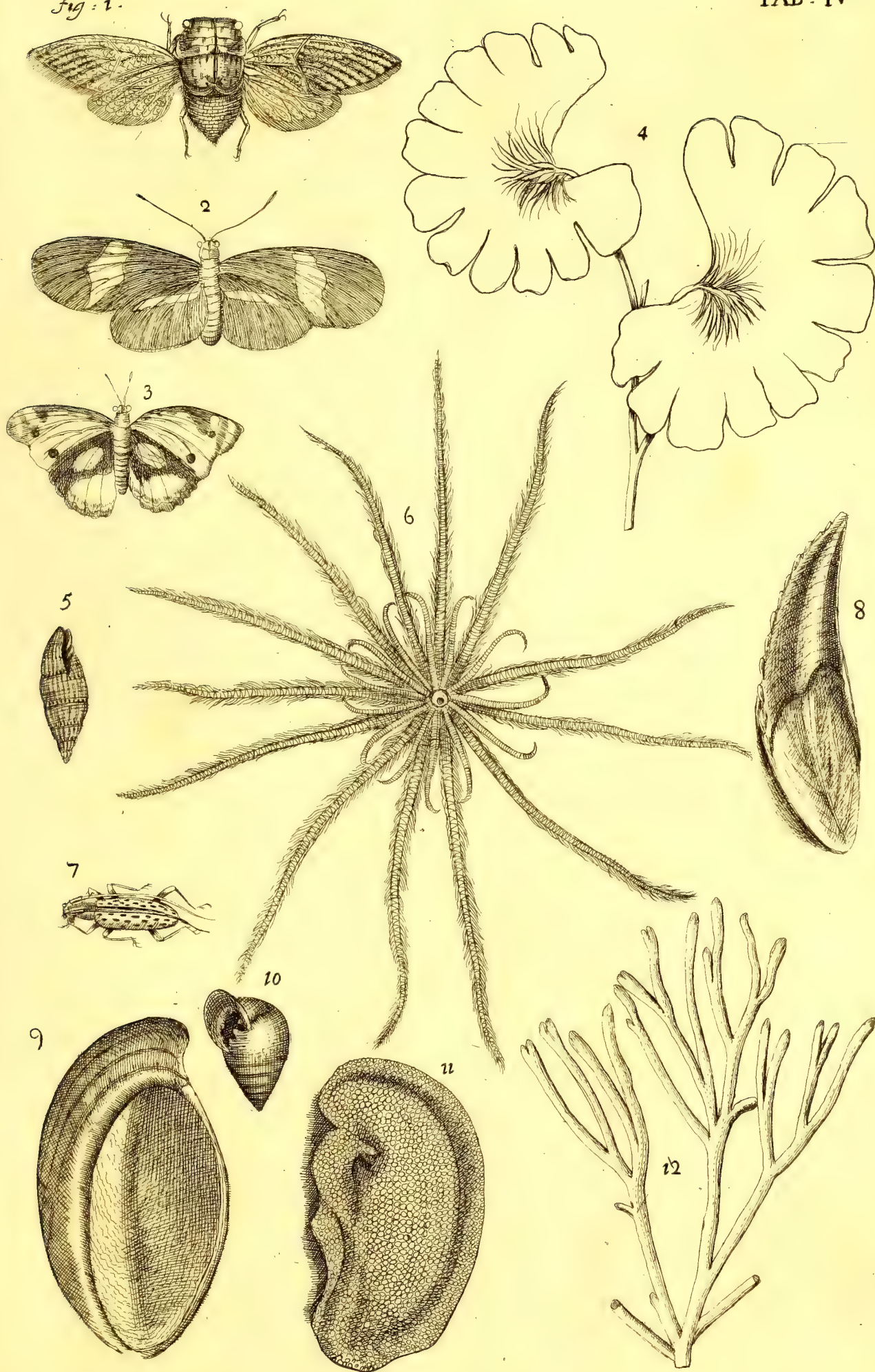








Fig. i.

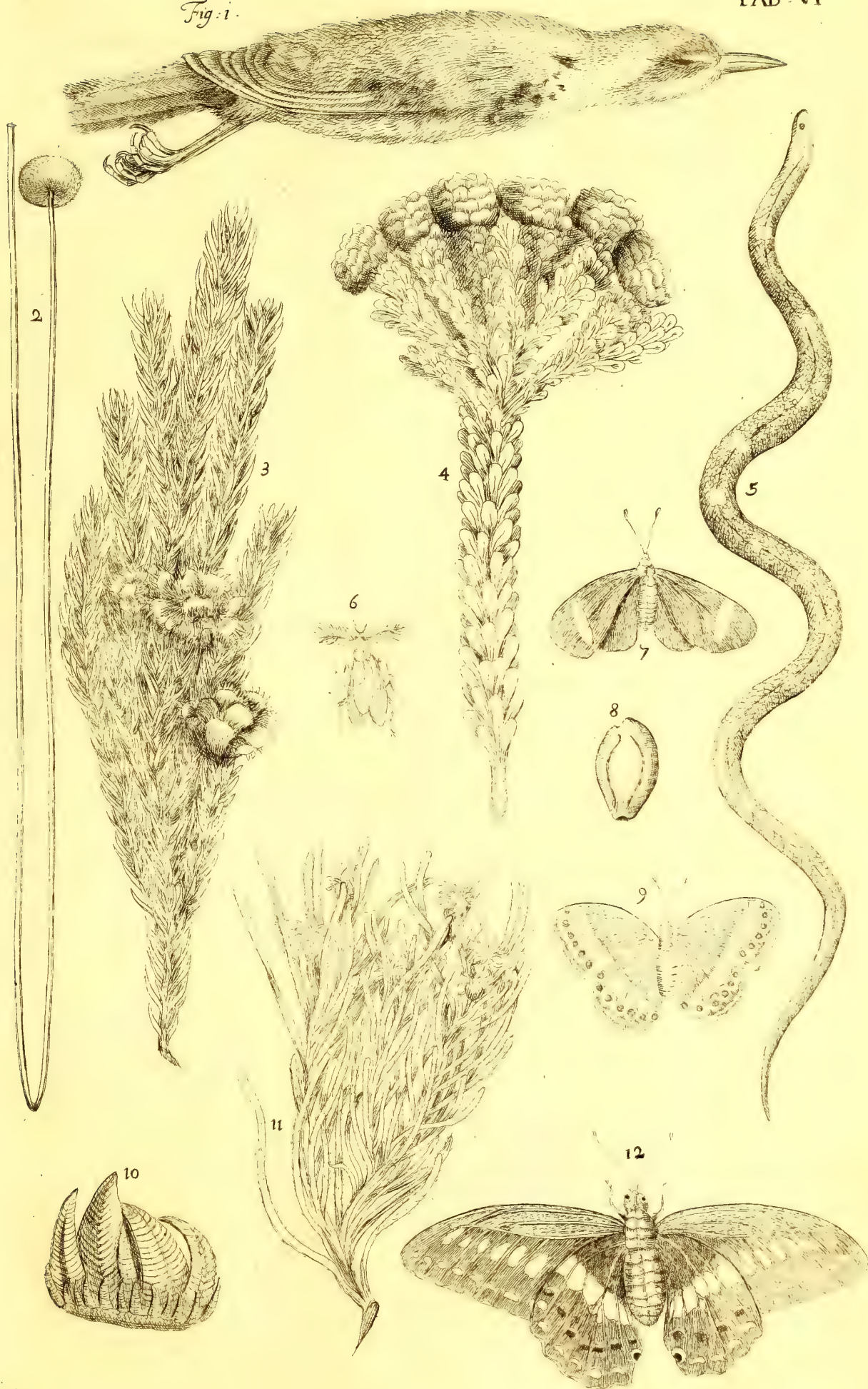




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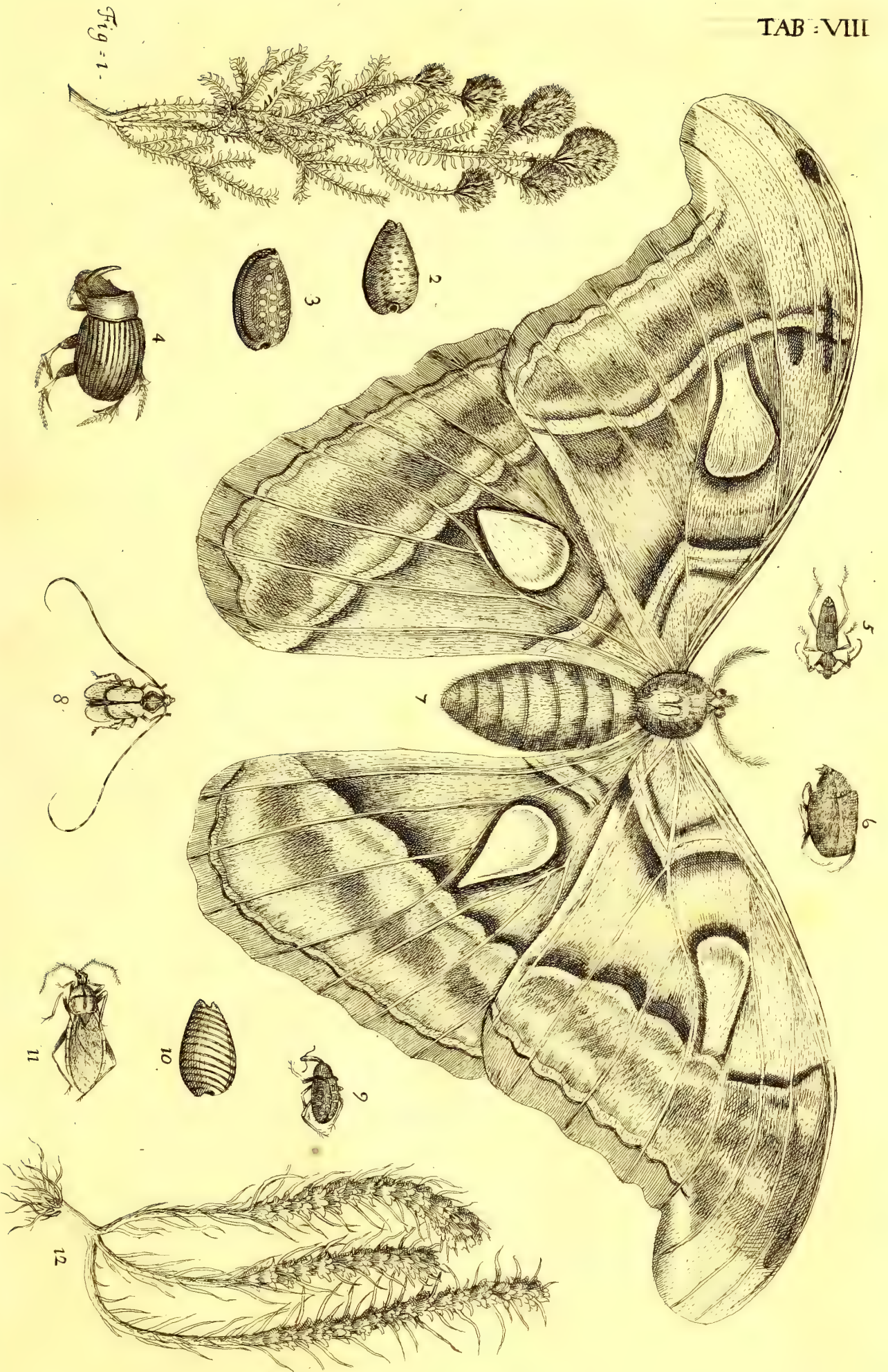
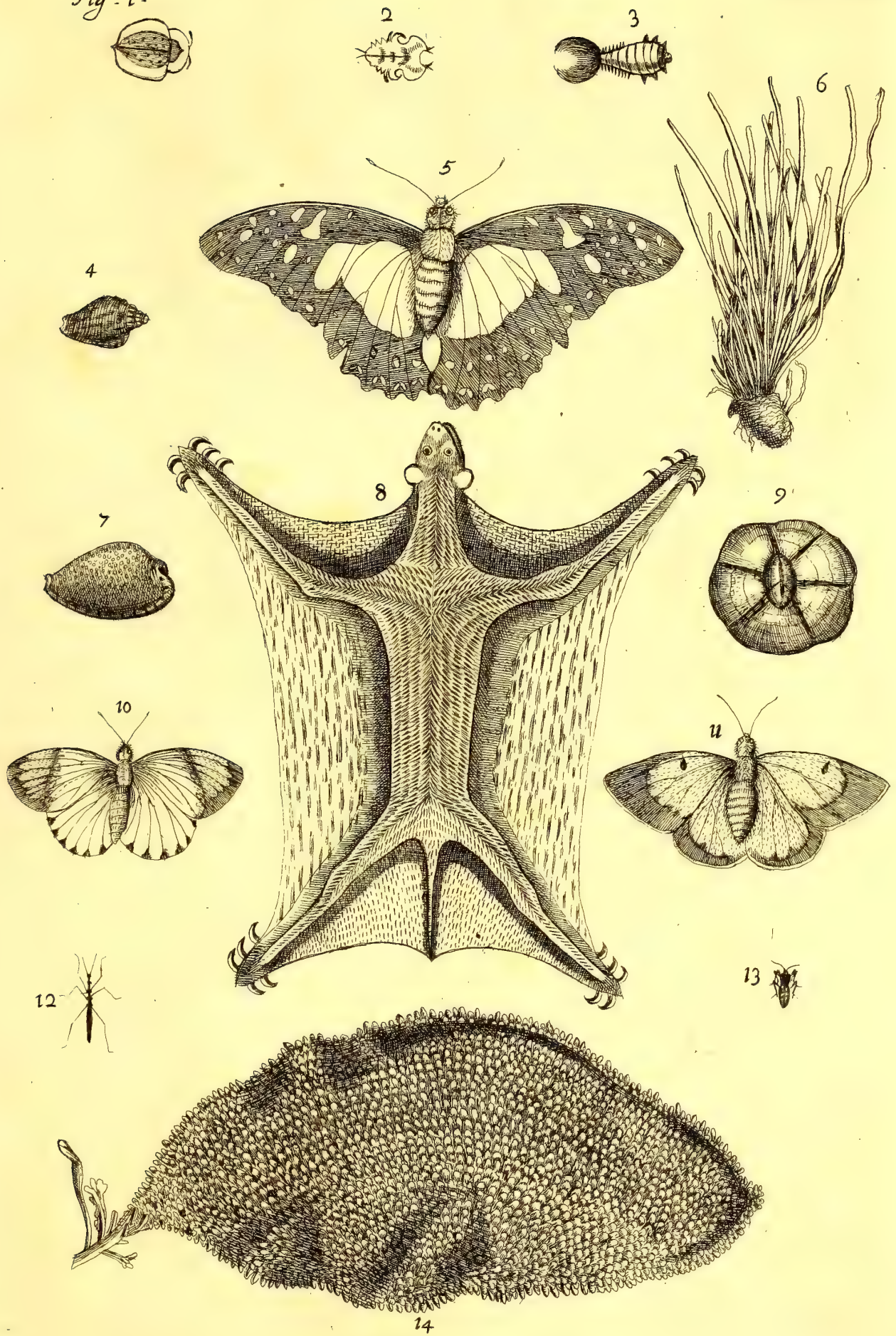


Fig: 1-

TAB: IX





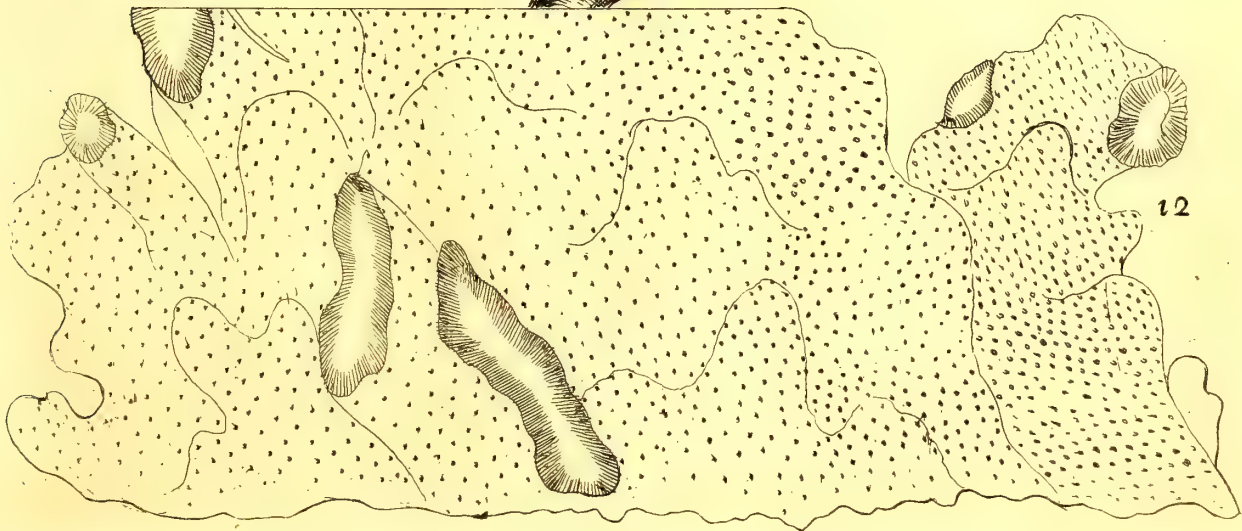
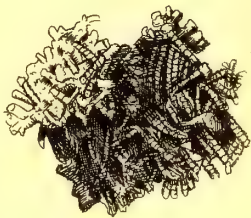
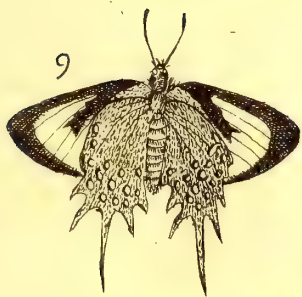
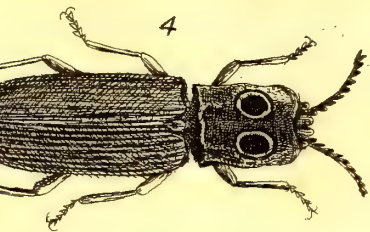
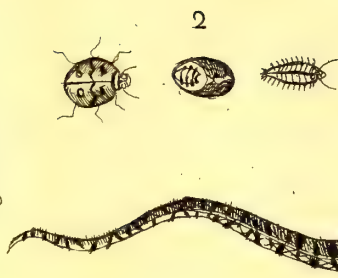




Fig. 1.







Fig. 1.





Fig: 1.

TAB: XVI

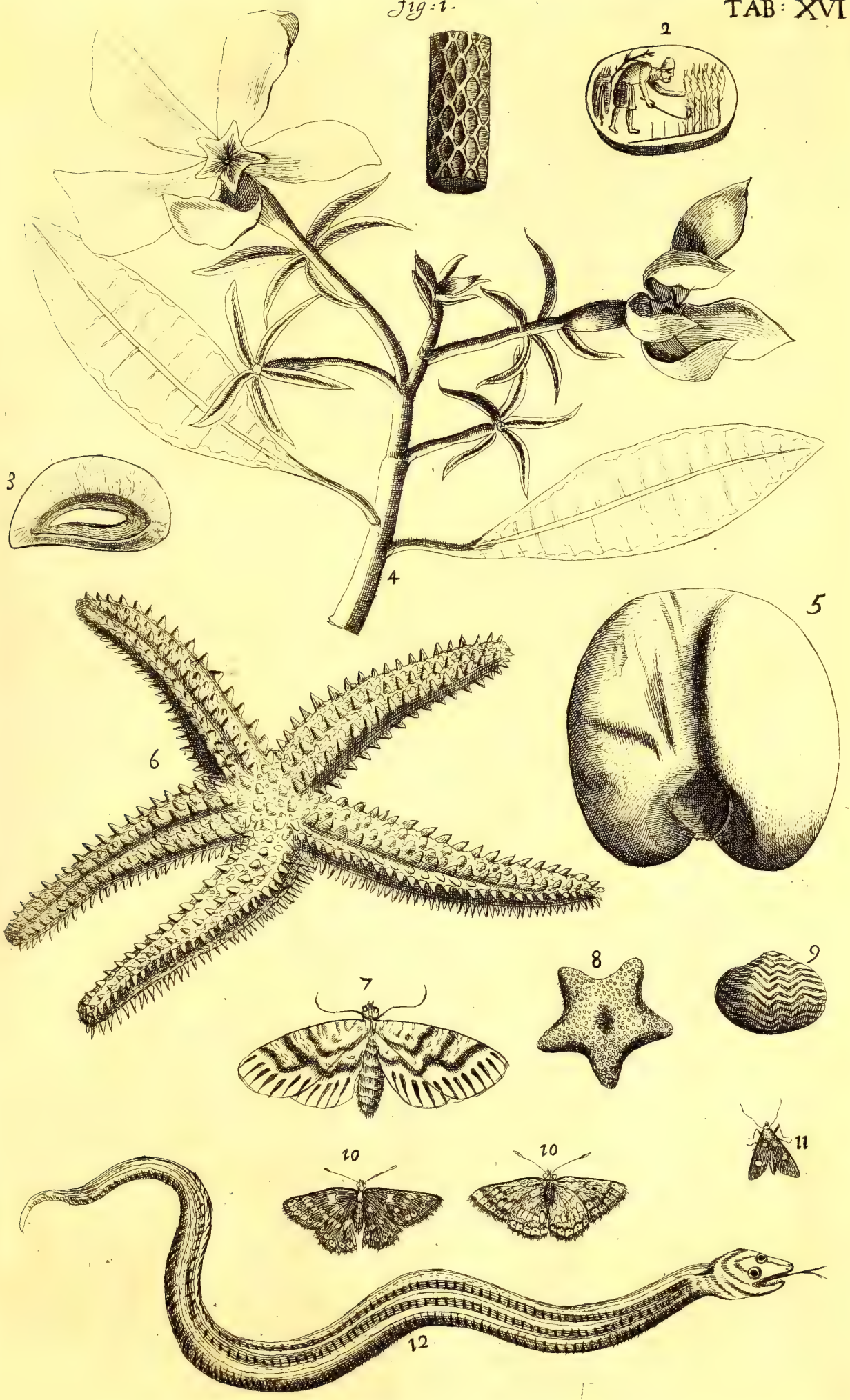




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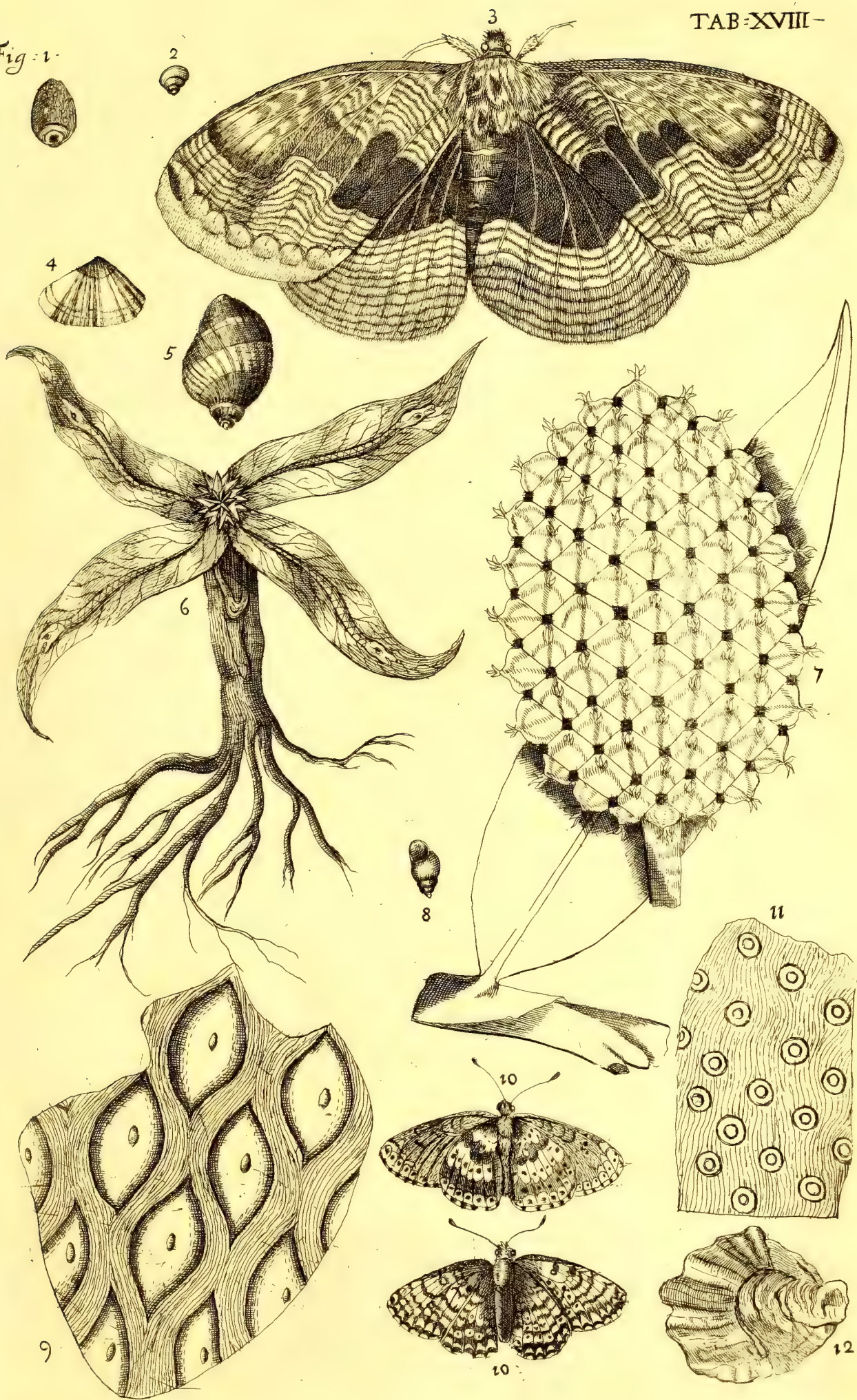
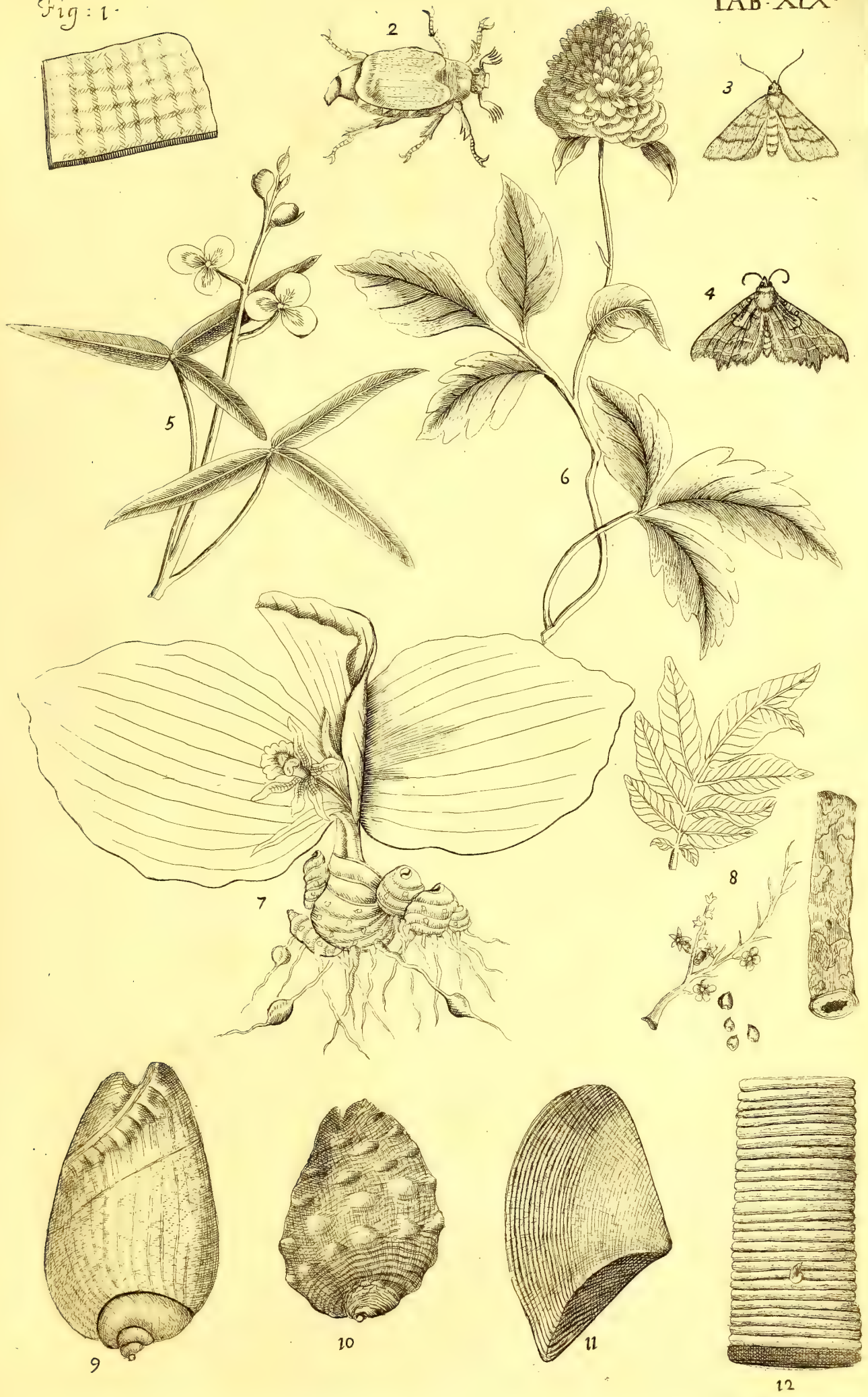


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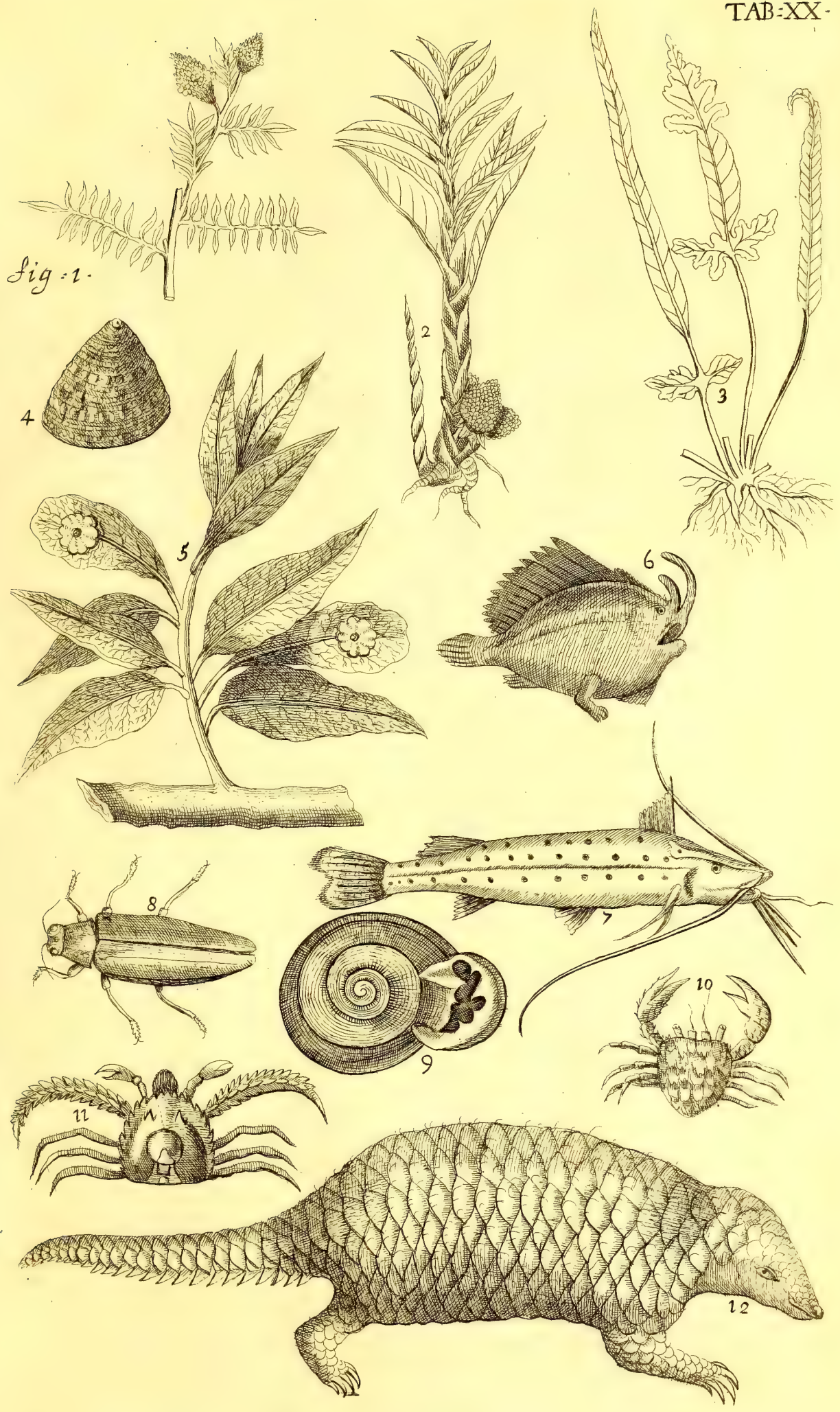


Fig. 1.

Fig: i.

TAB: XXI

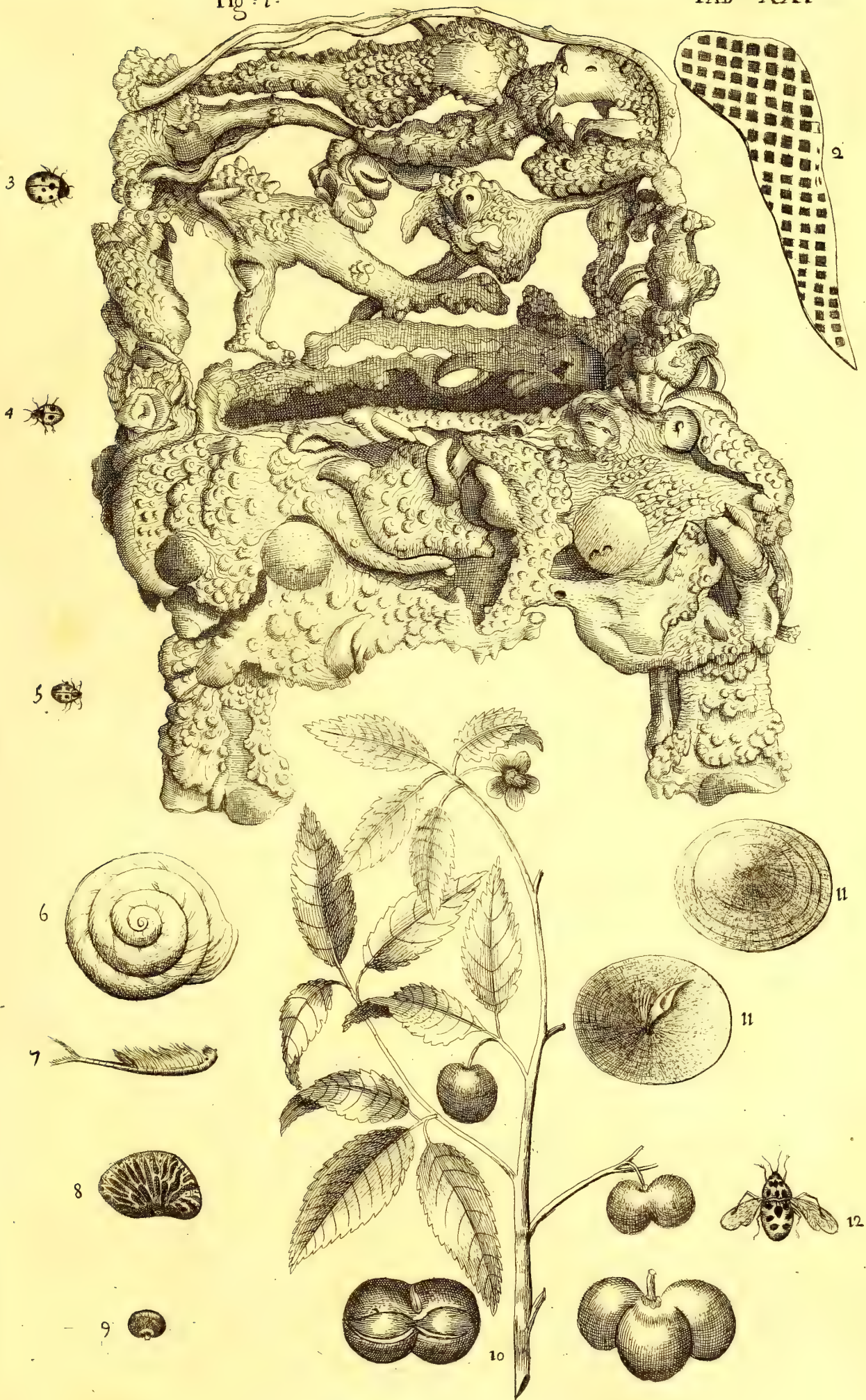


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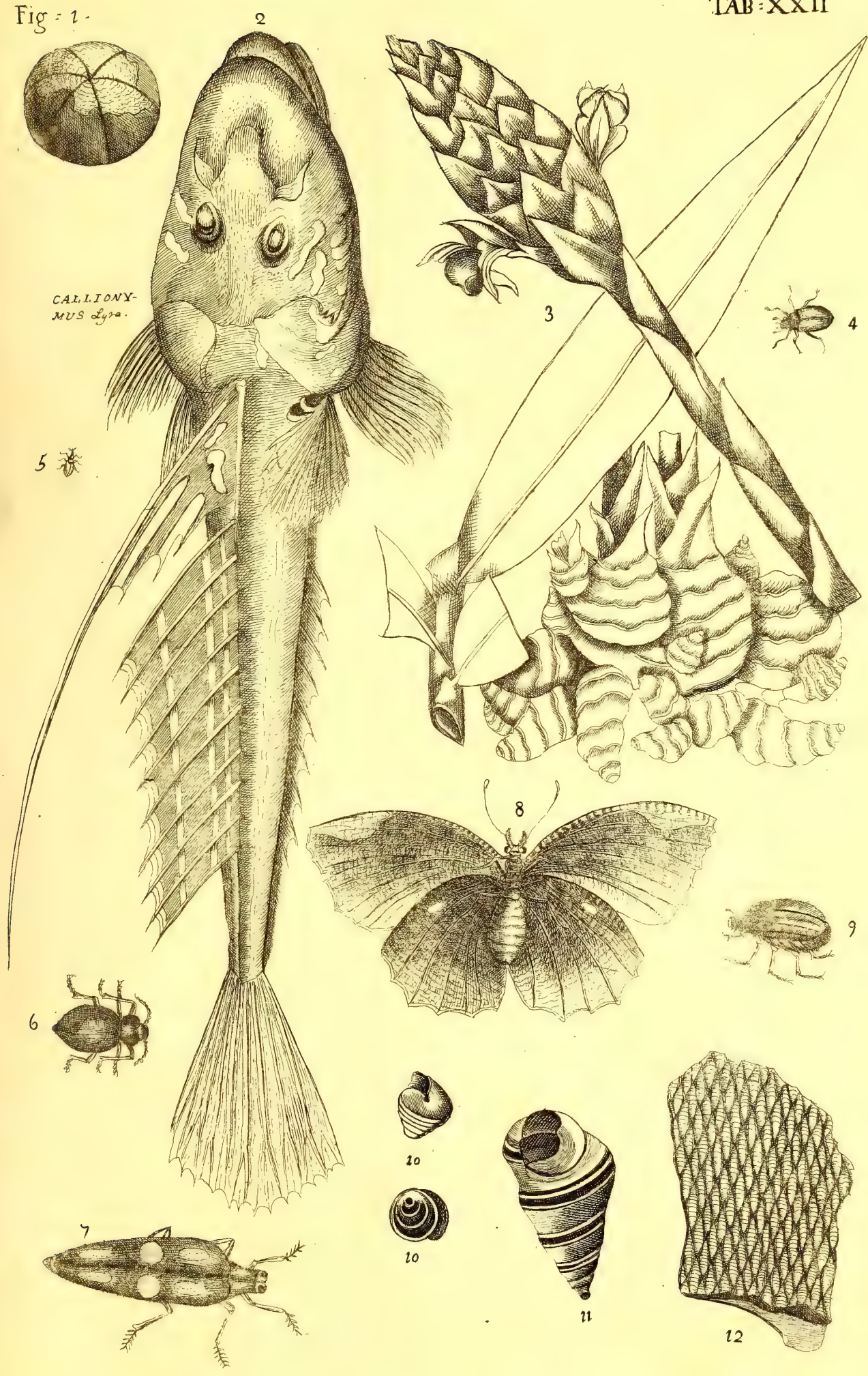


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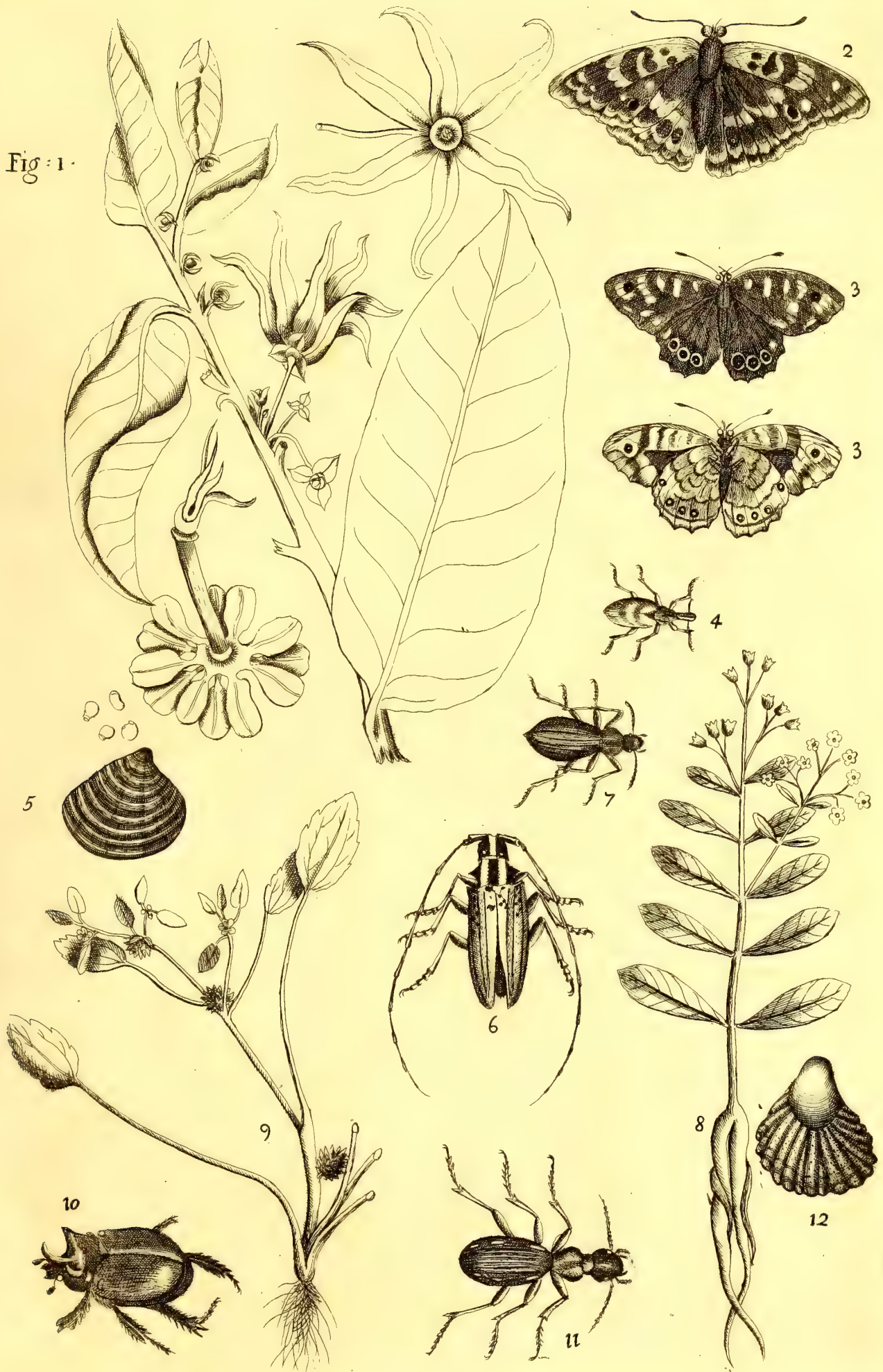




Fig: 1.









Fig: I.

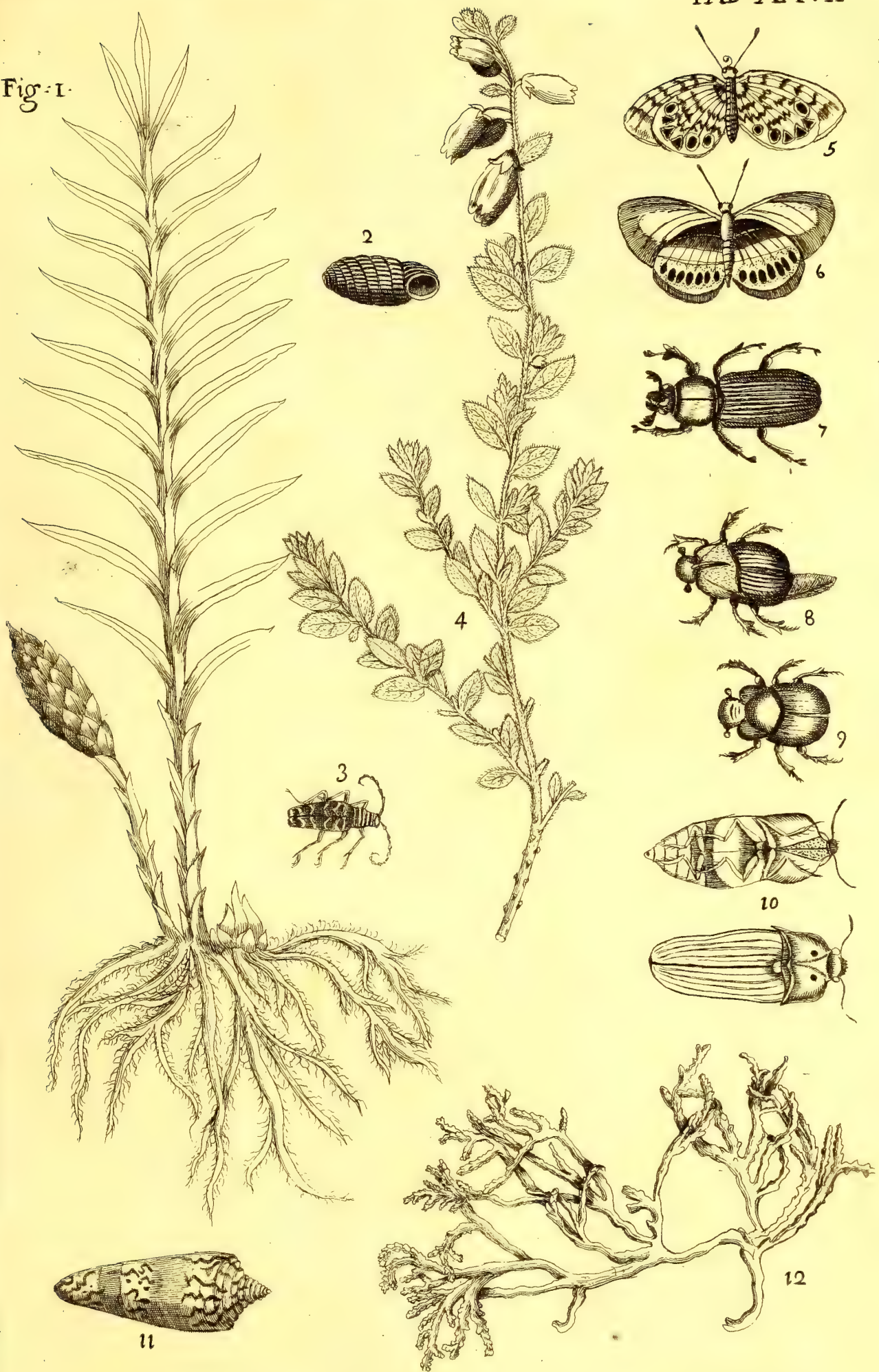




FIG. I.

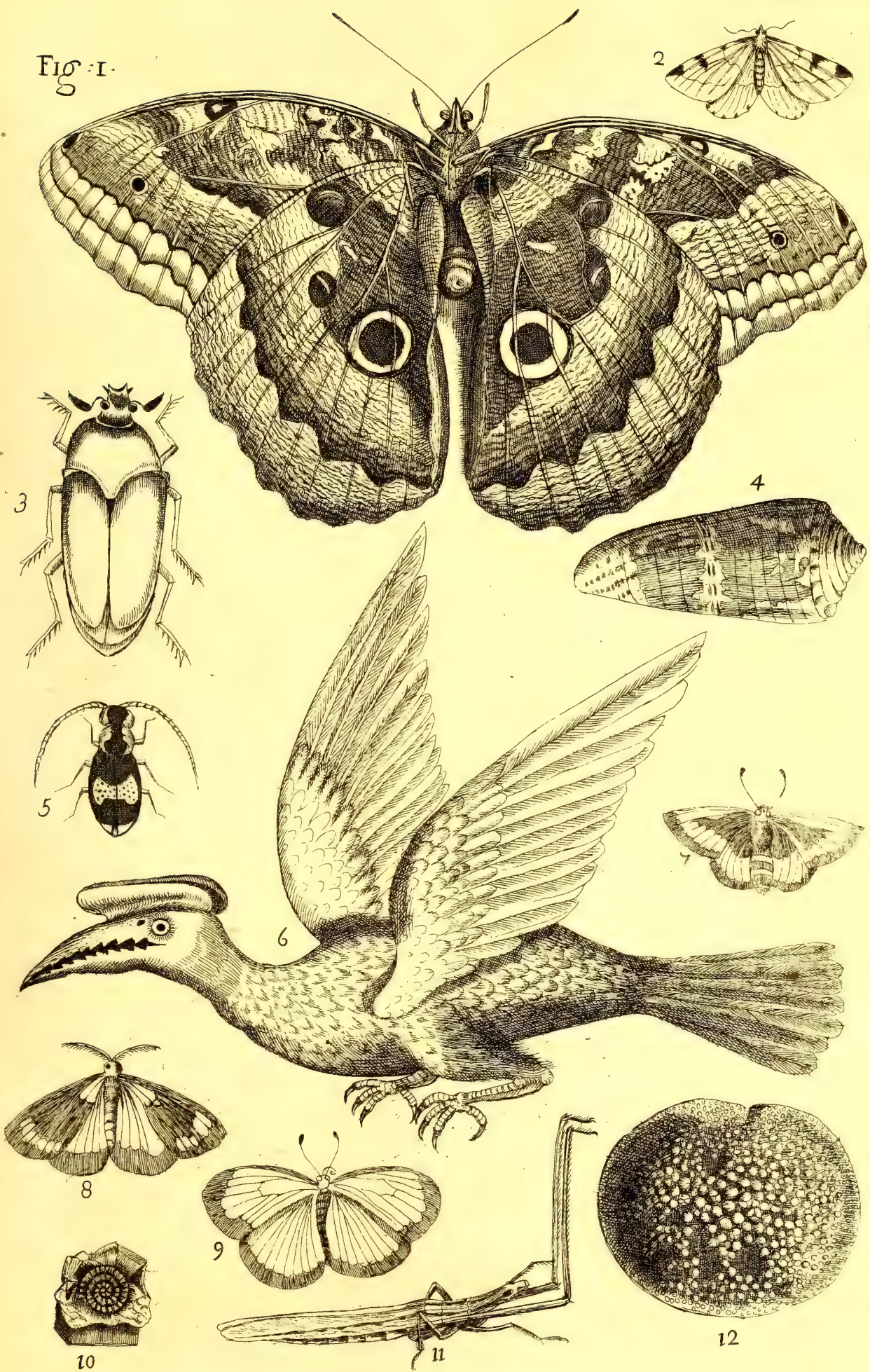




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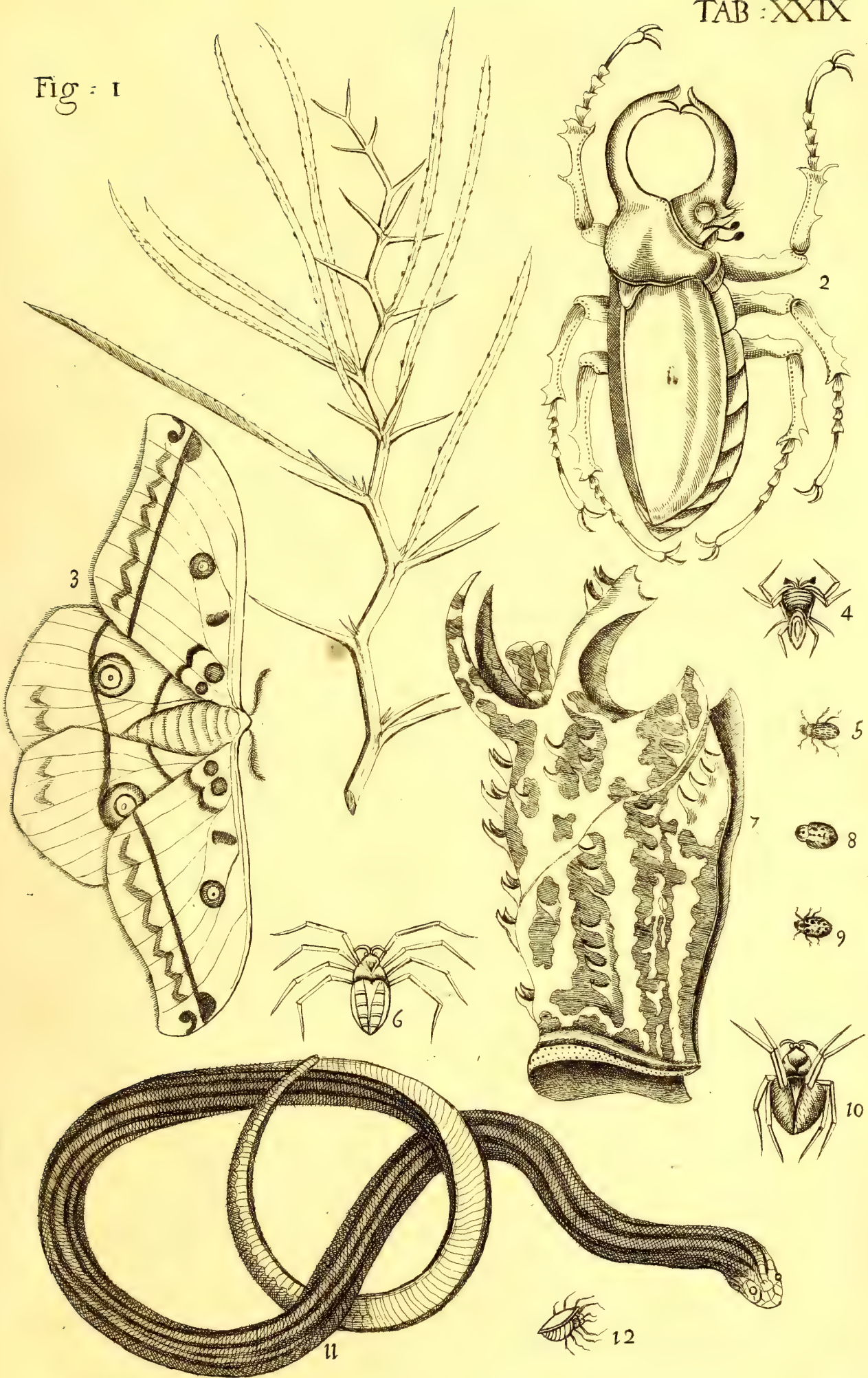
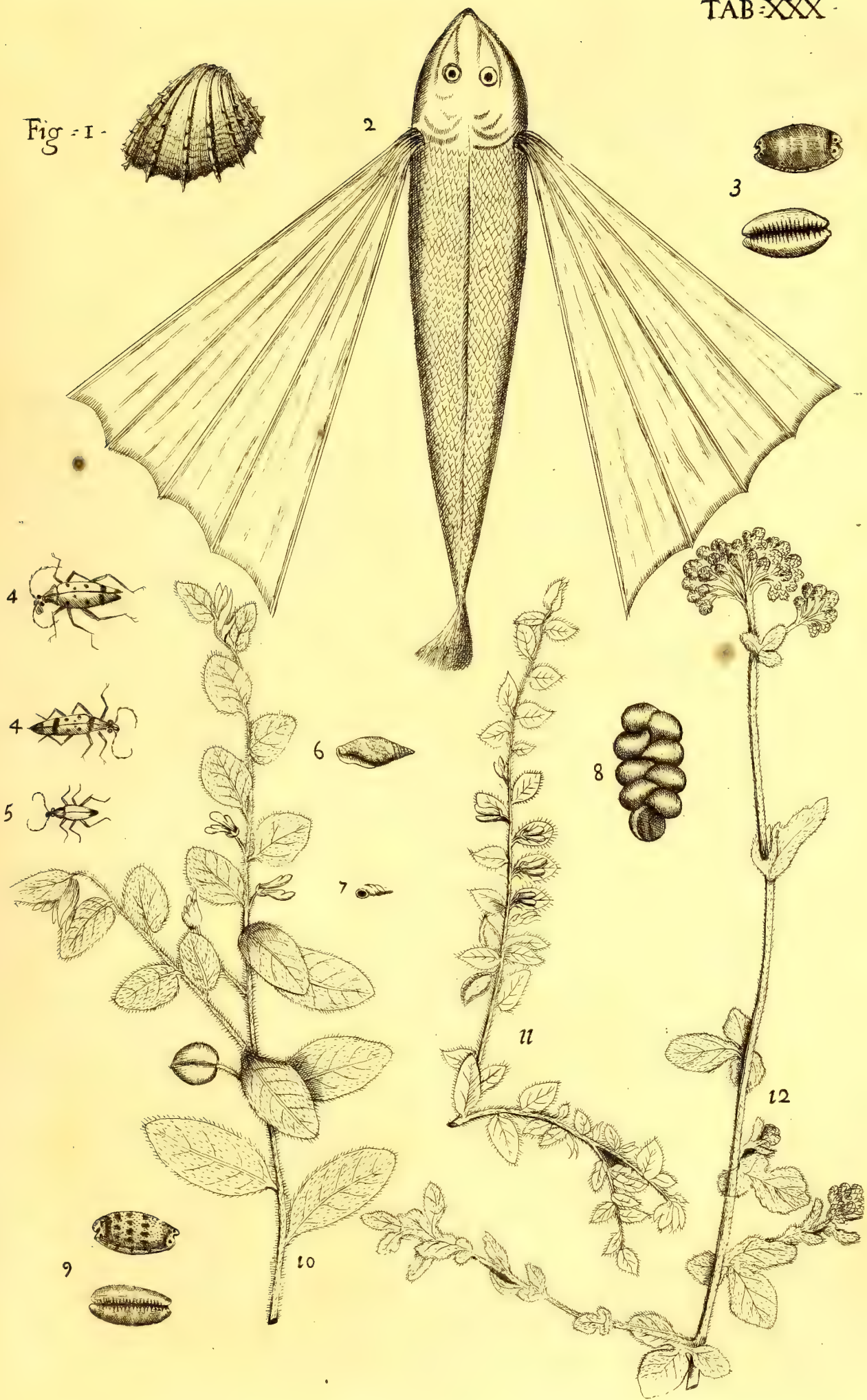
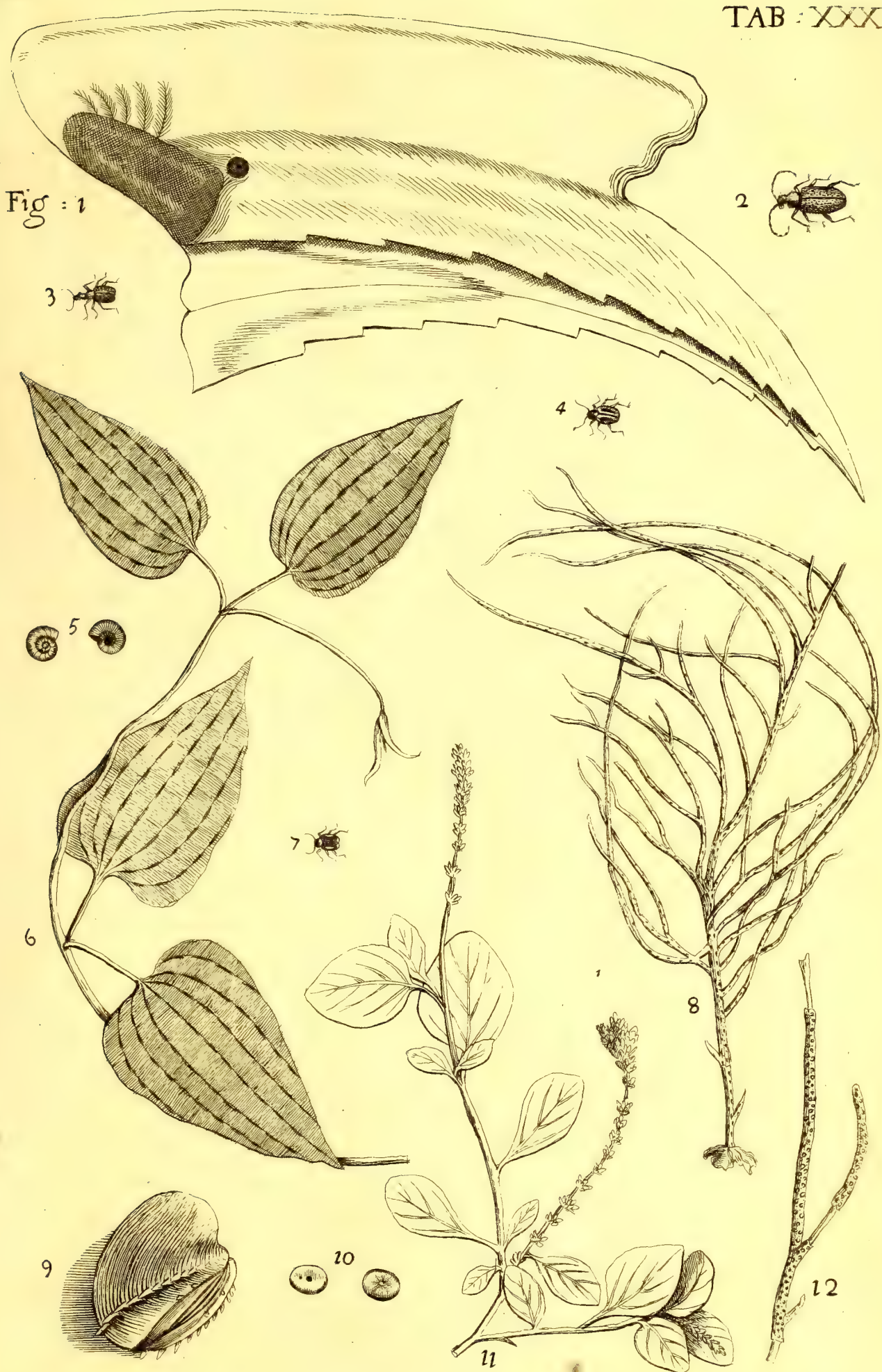




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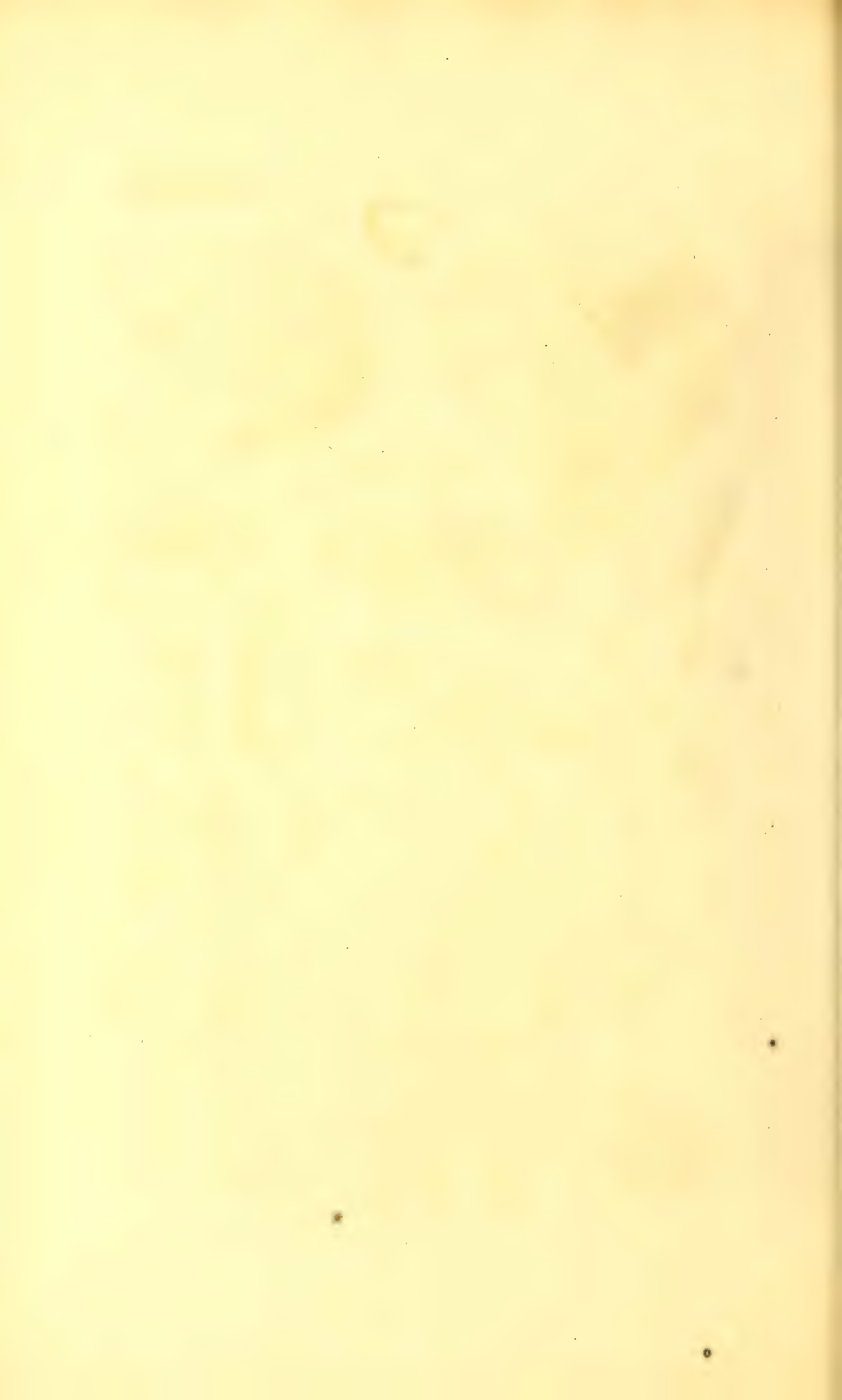


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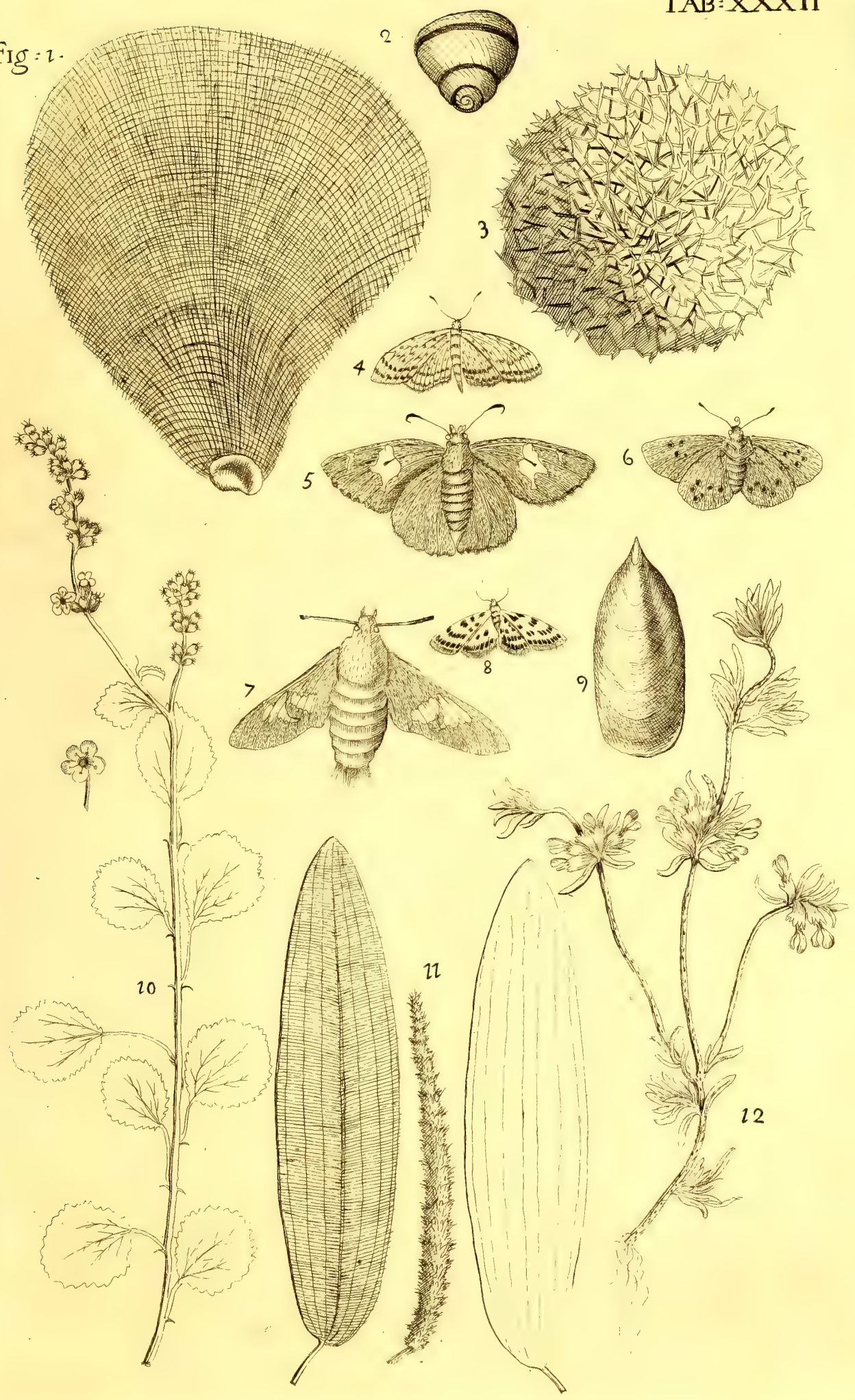






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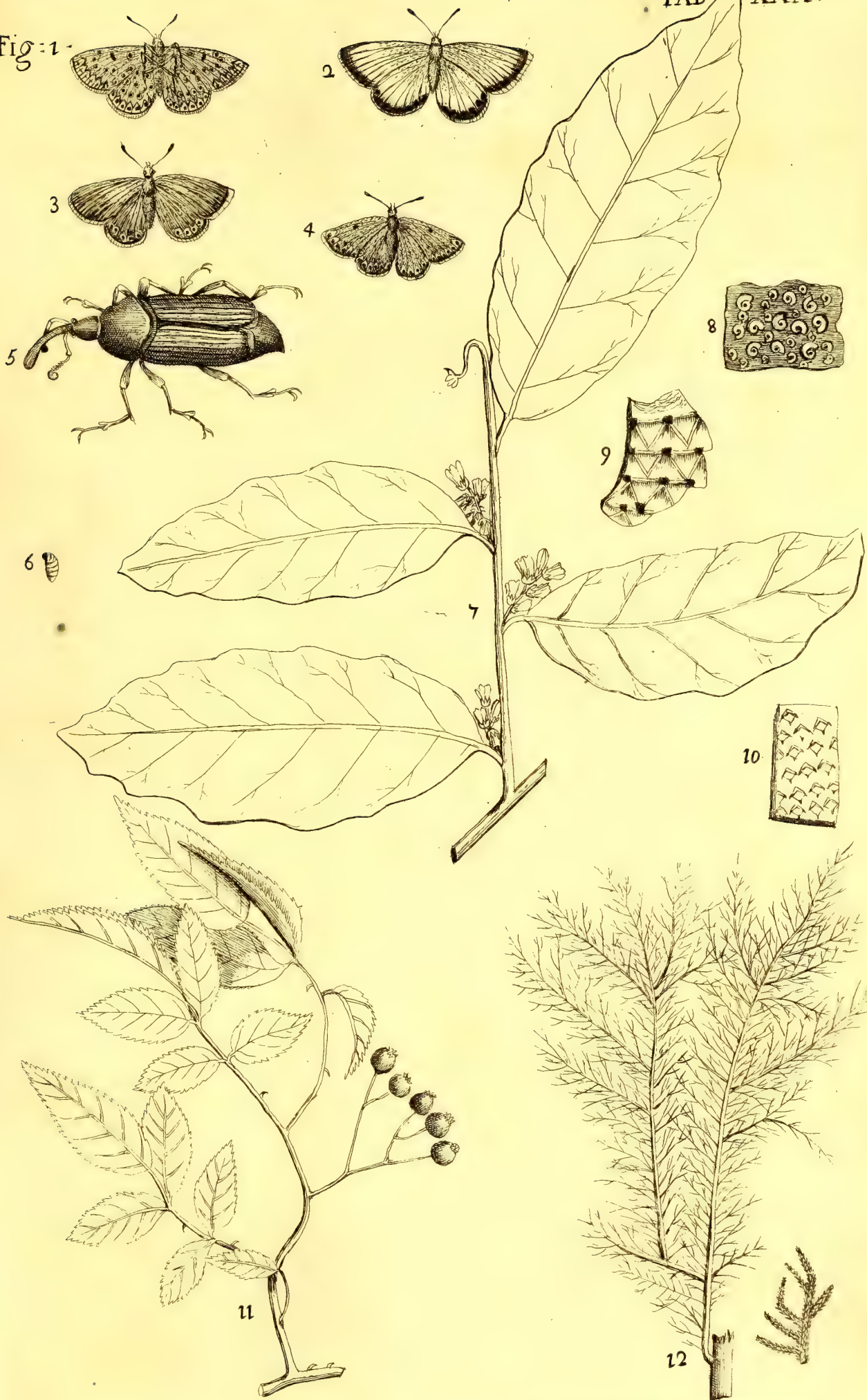




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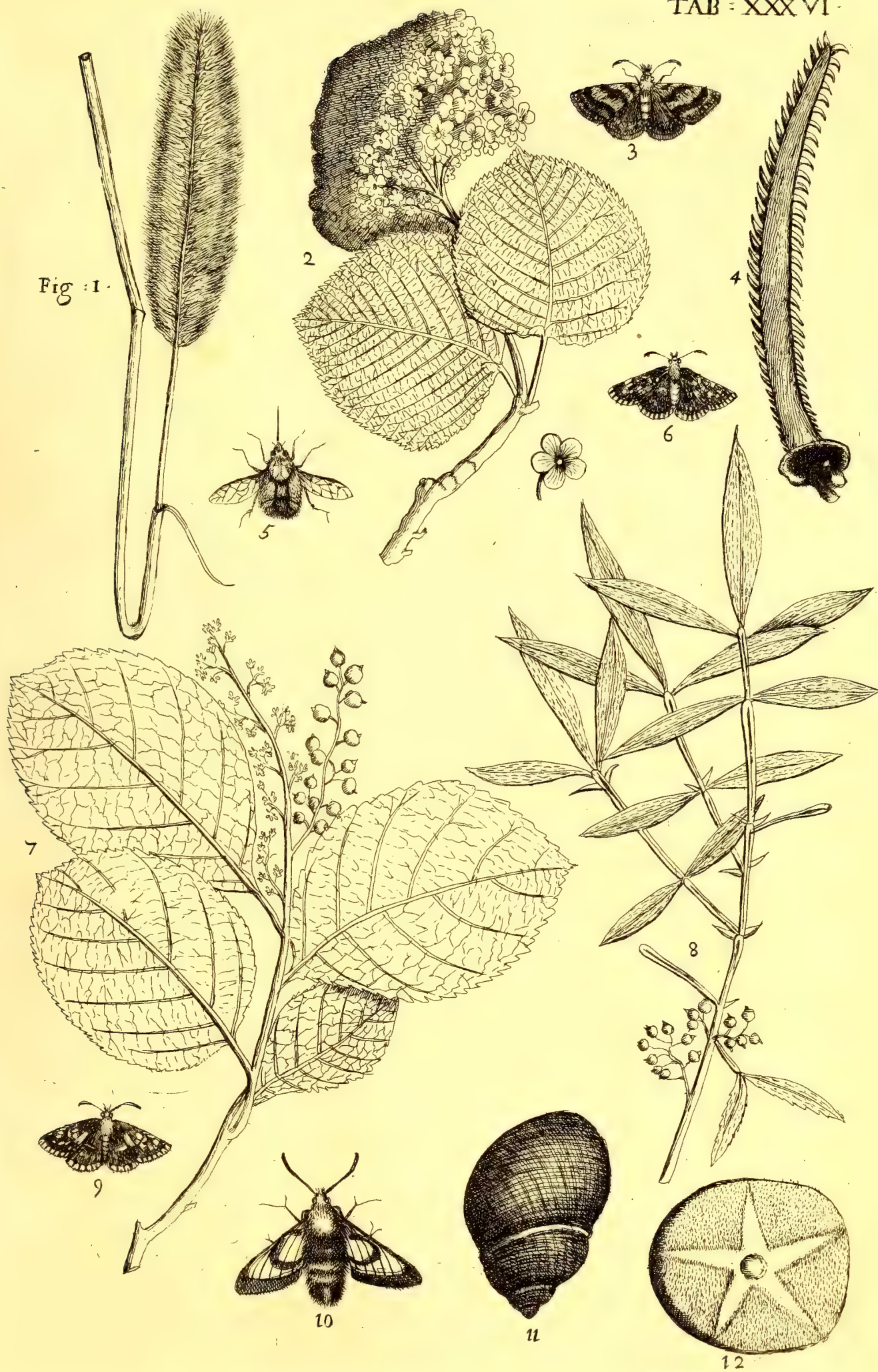


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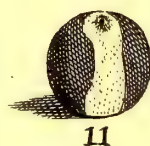
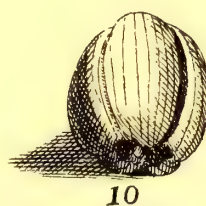
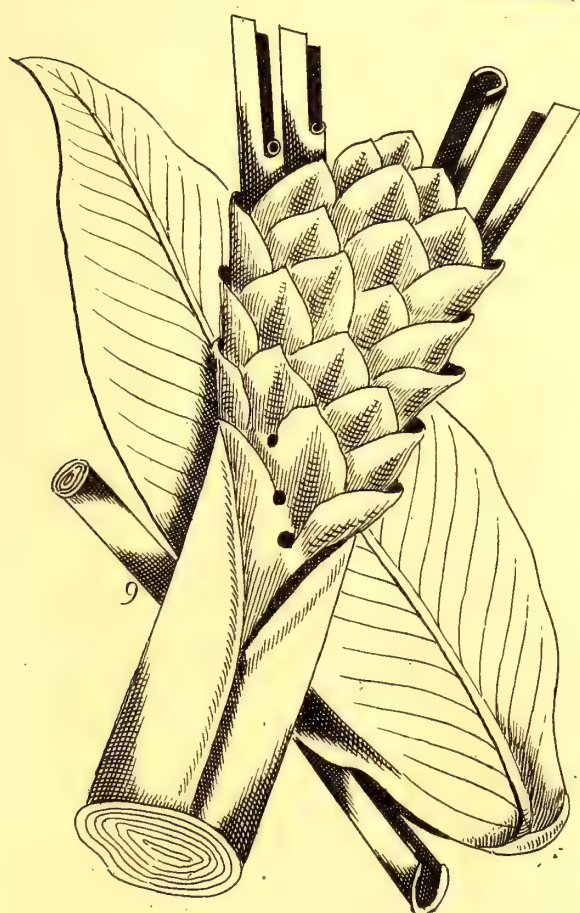
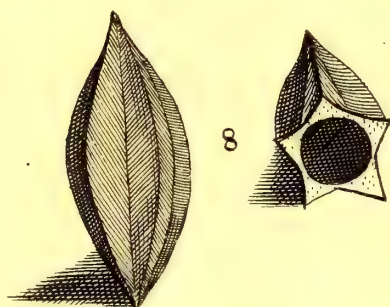
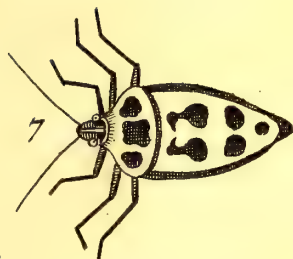
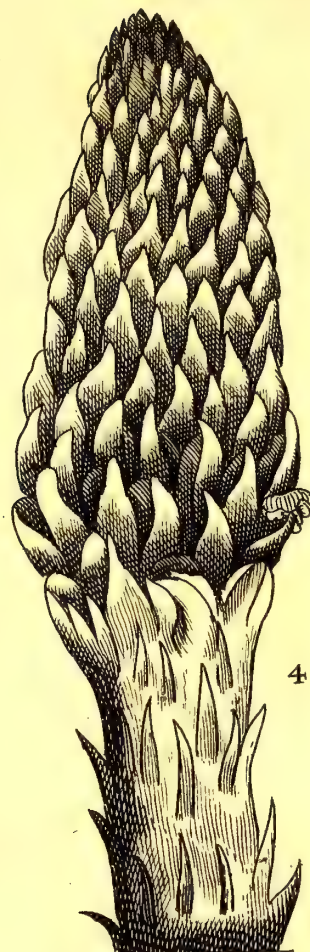
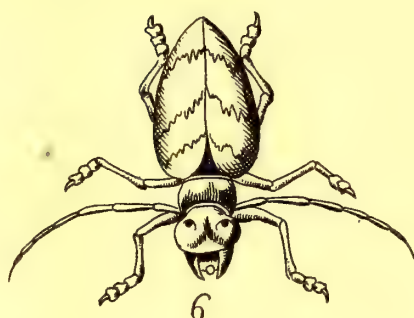
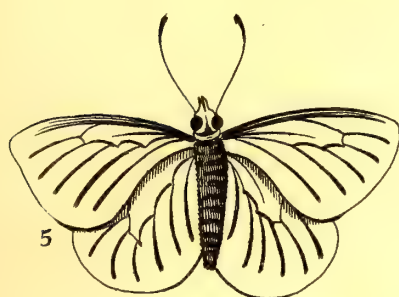
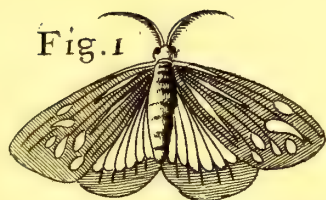


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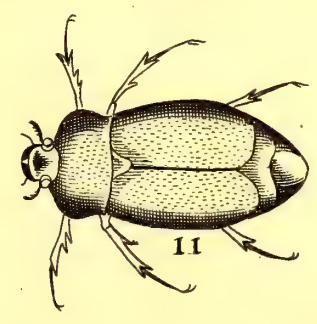
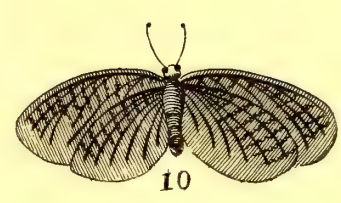
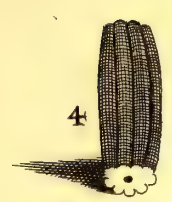
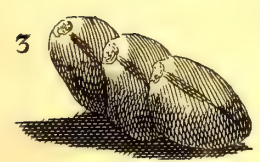
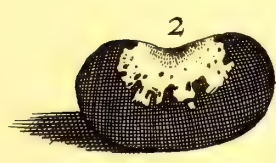
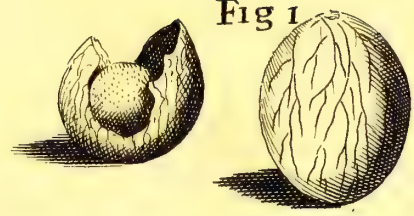




Fig. 1





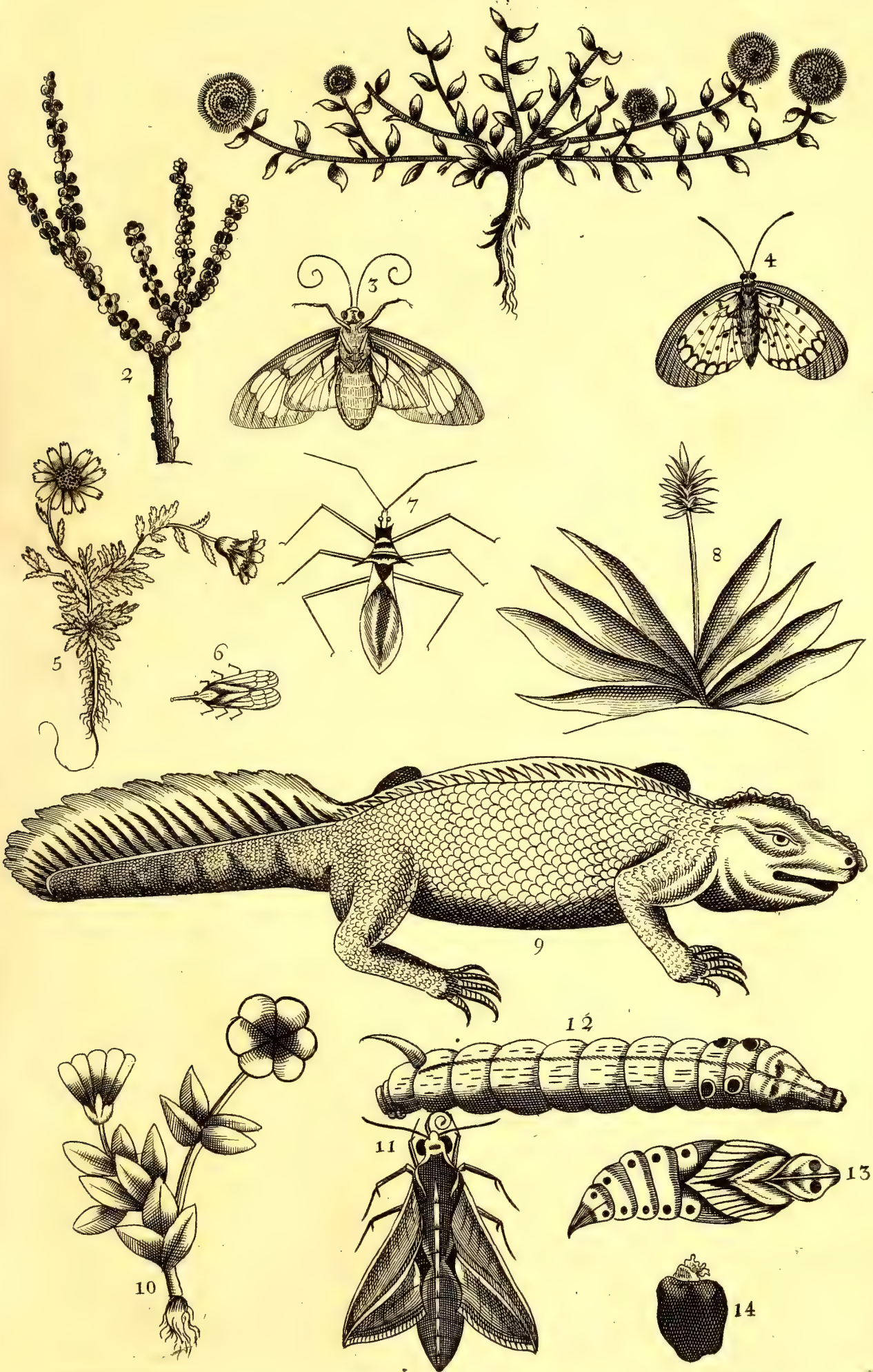




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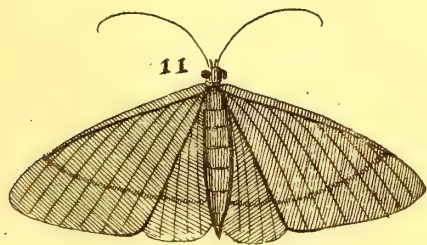
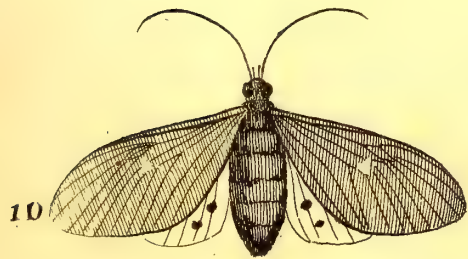
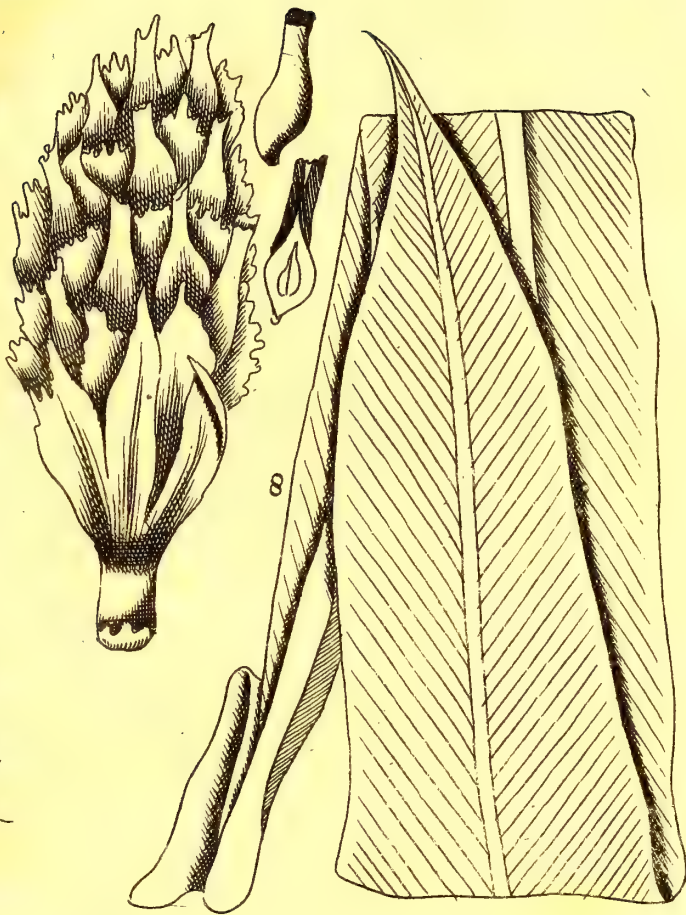
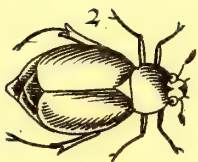


Fig: 1

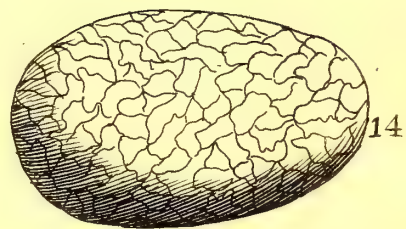
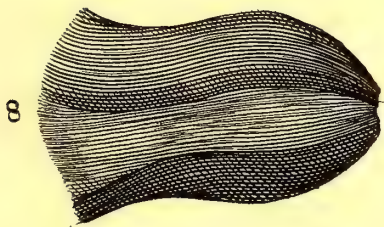
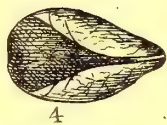
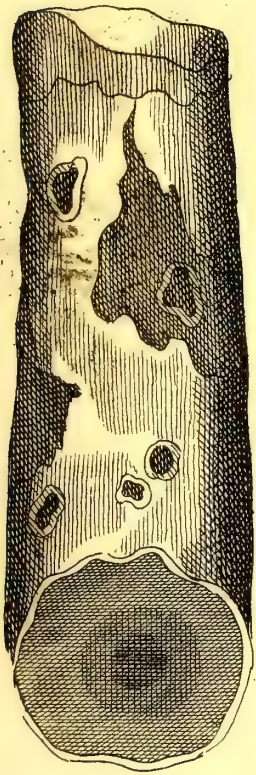




Fig 1

Tab XLIII



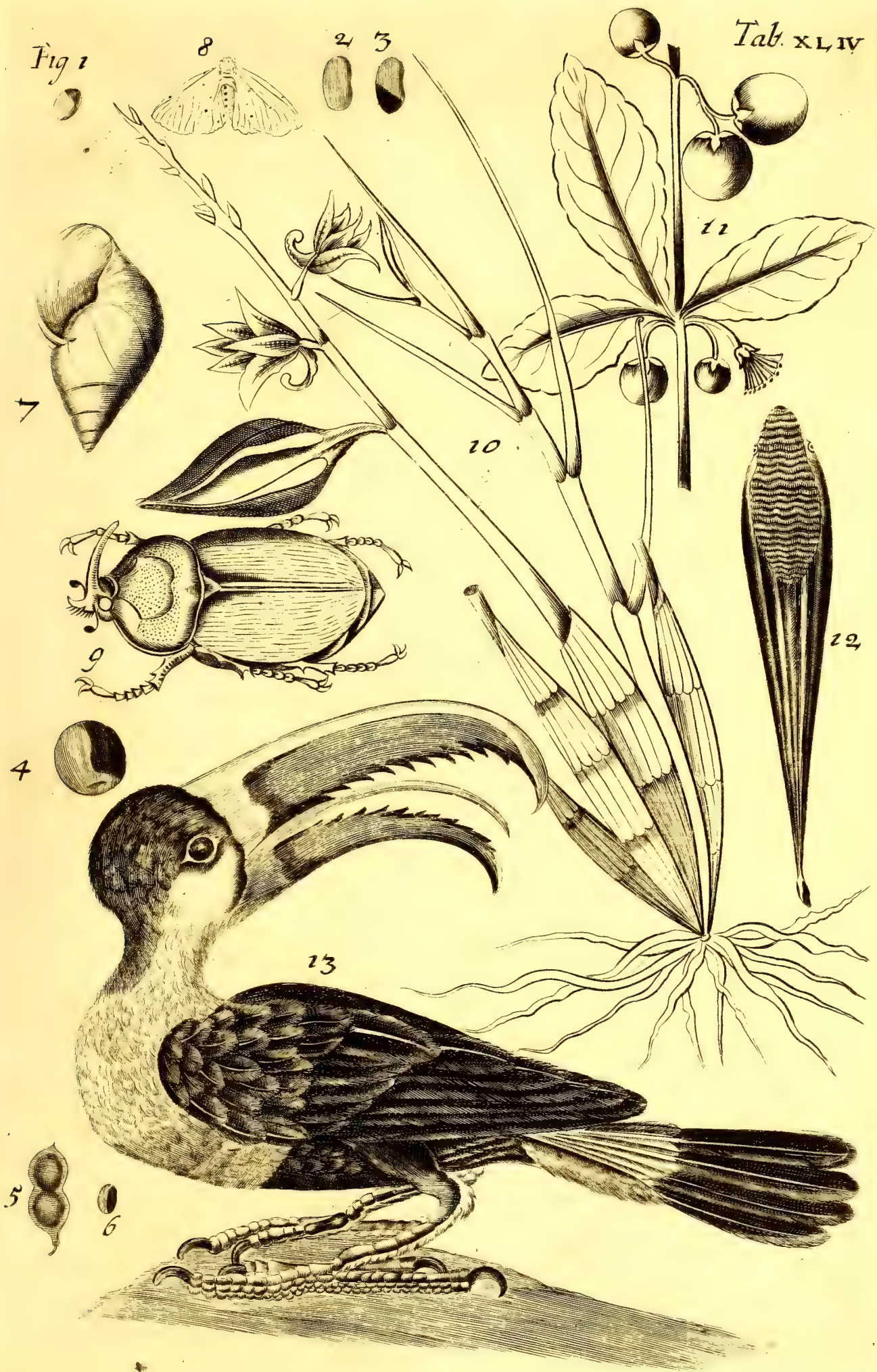




Fig. 1

Tab. XLV





Fig 1

Tab XLVII

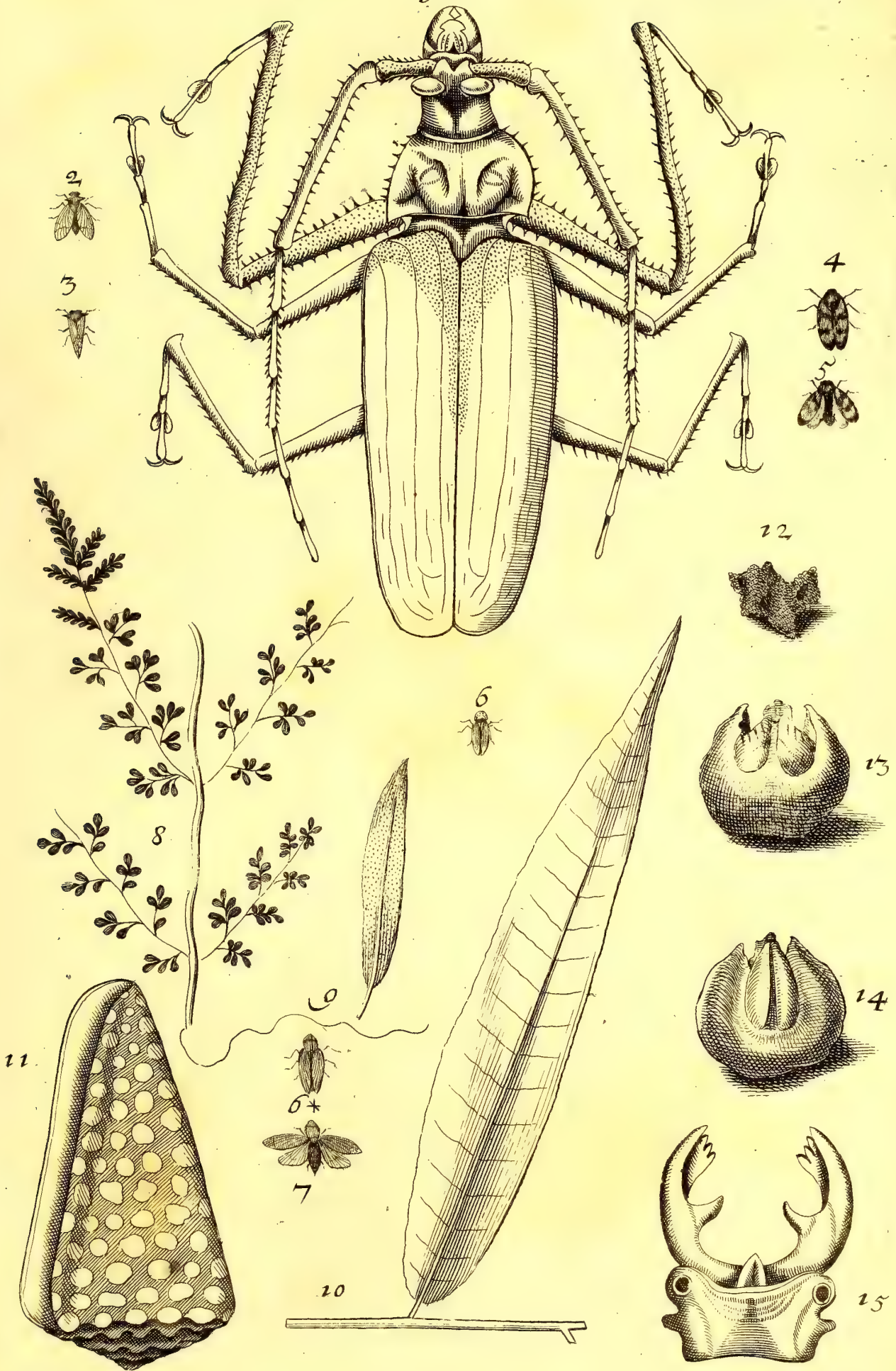
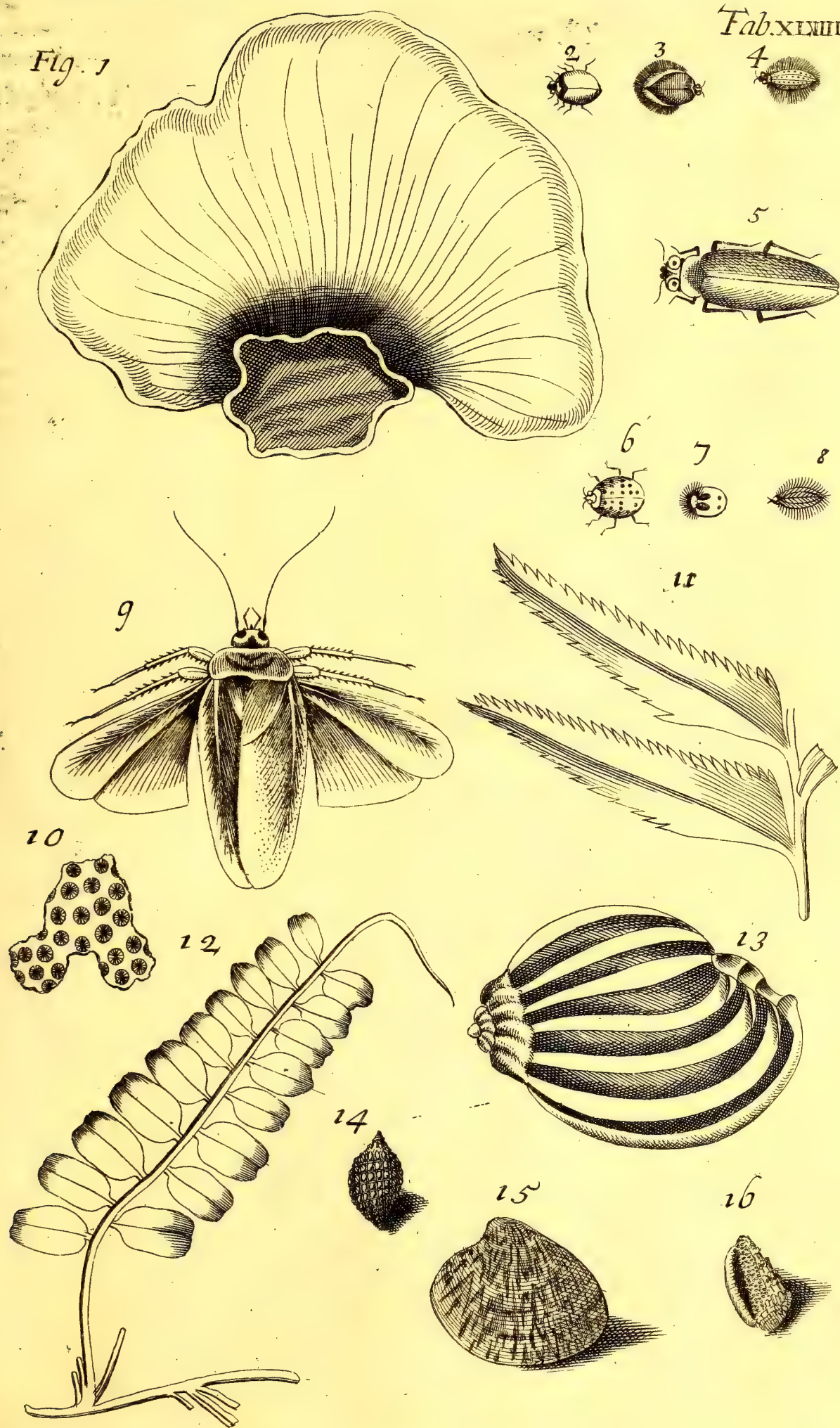




Fig. 1



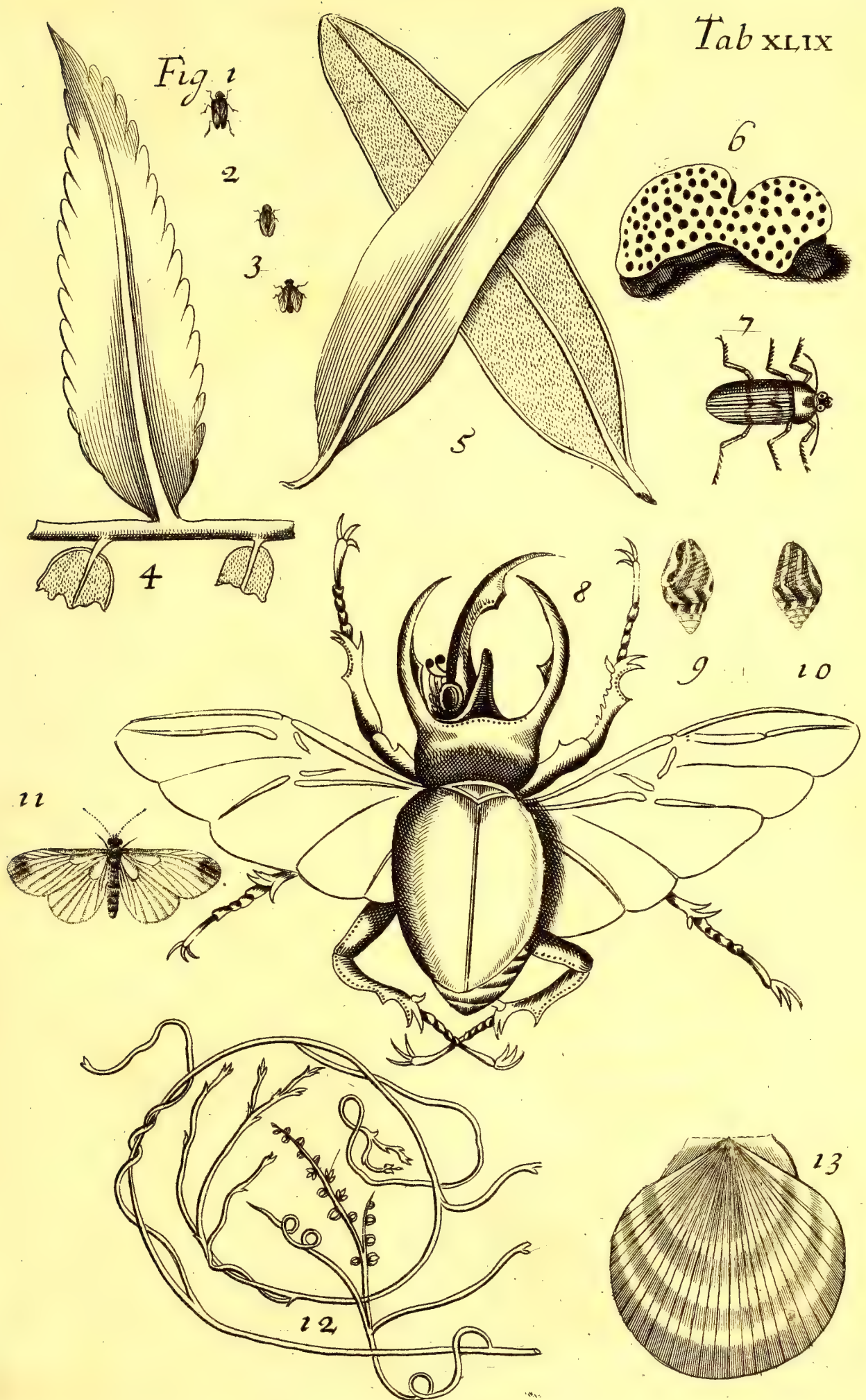
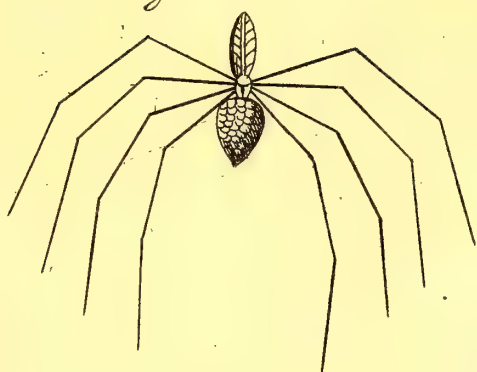
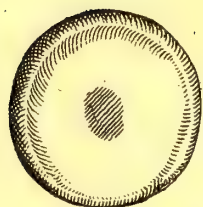


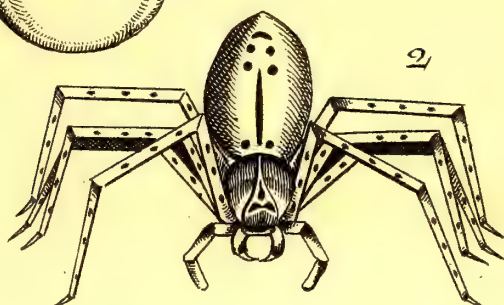
Fig 1



A



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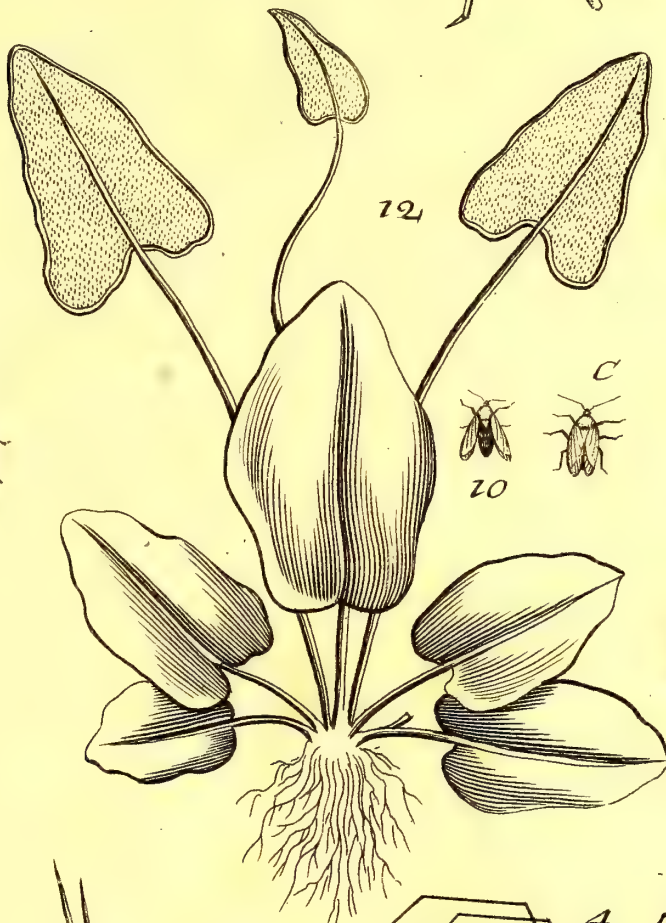
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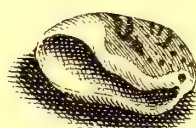
9



12



13



C

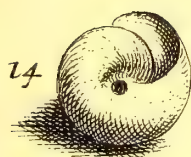


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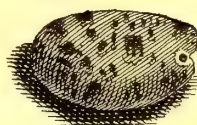


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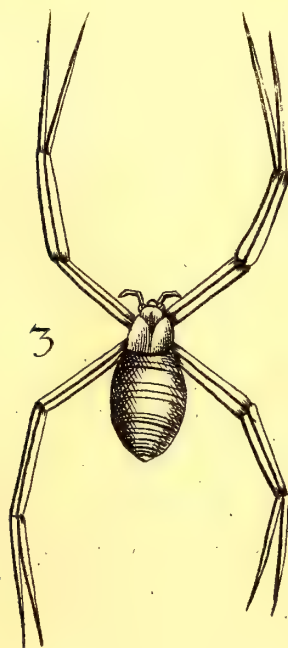
14



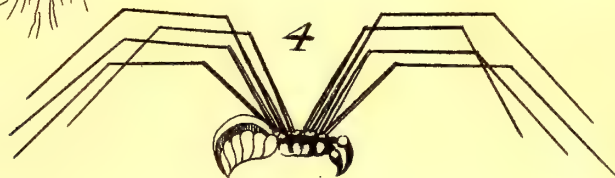
D



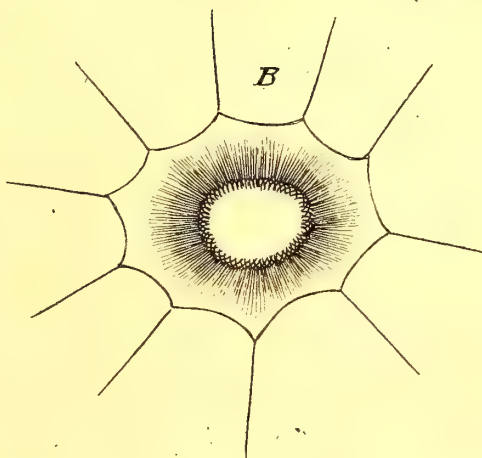
3



4



B



5



FIG. 1.

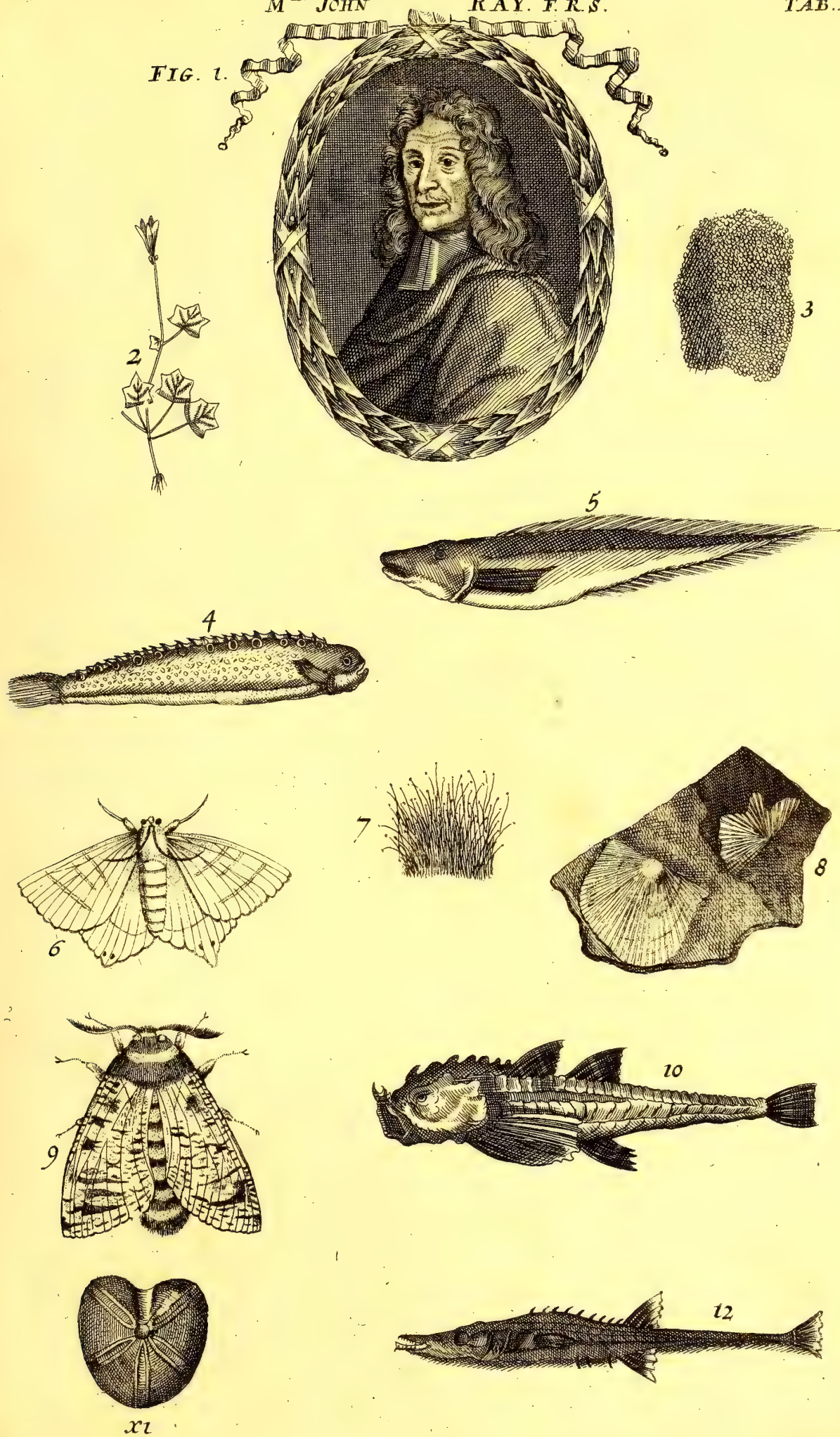


Fig. 1

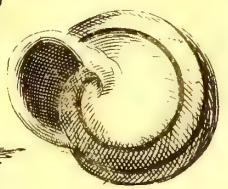
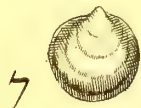
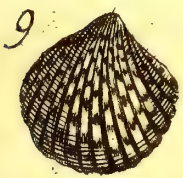


Fig. 1

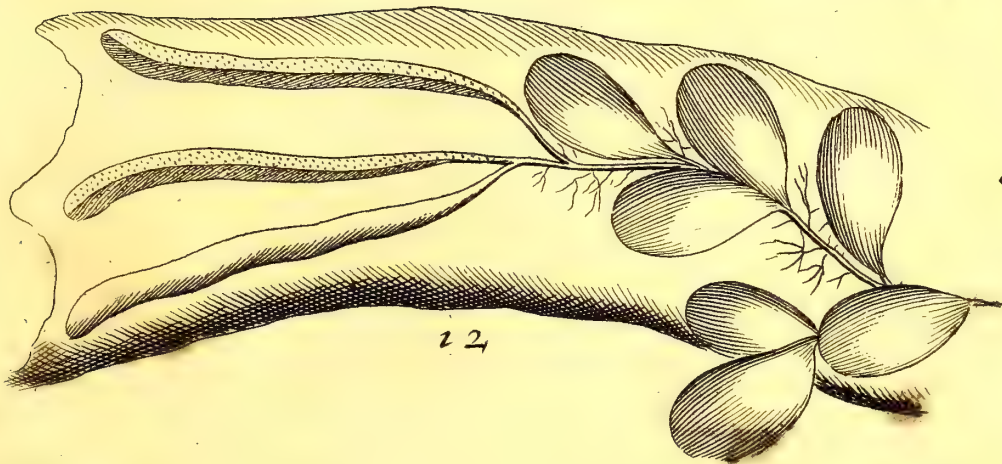
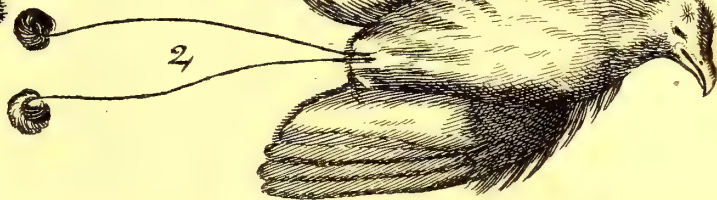
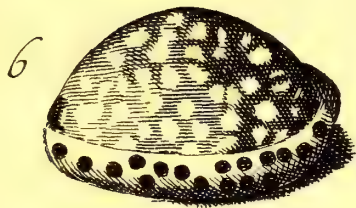
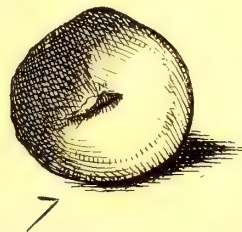
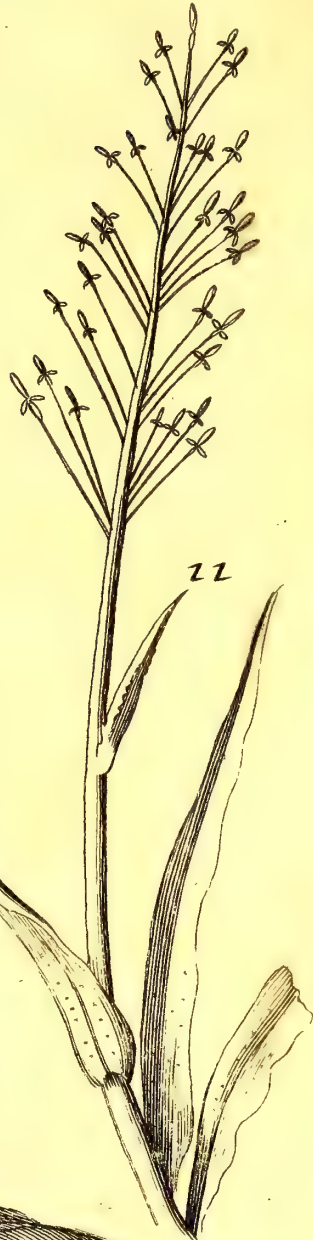
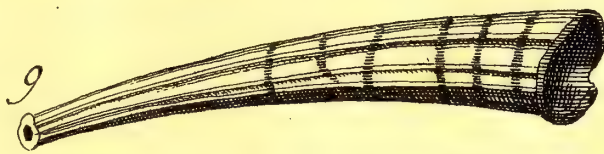
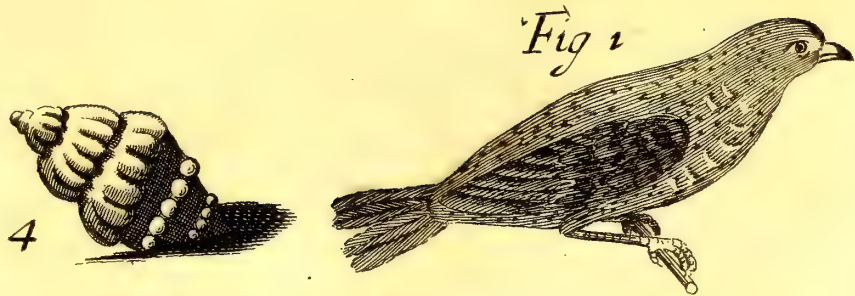


Fig. 1



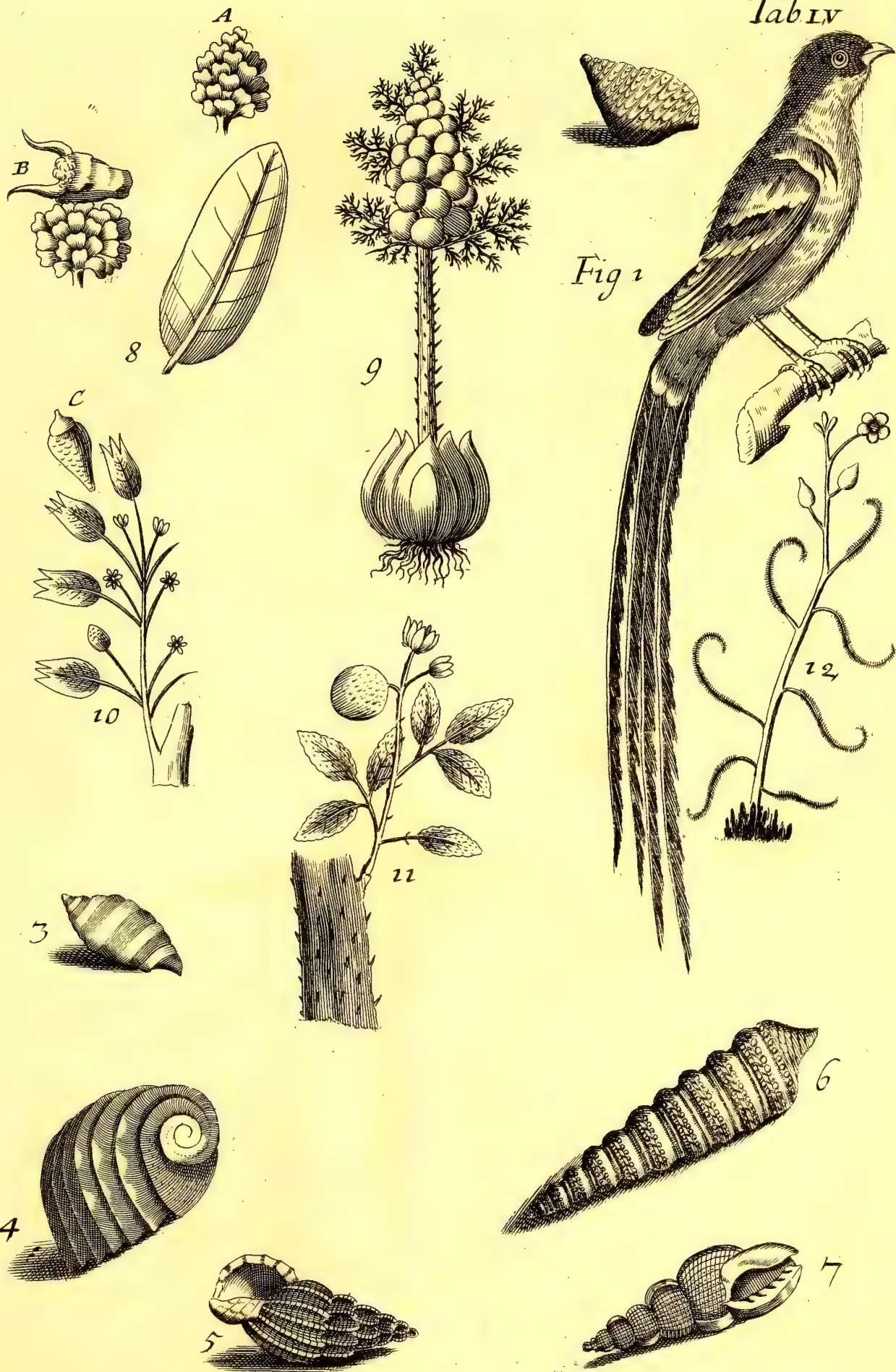




Fig 1

Tab LVI

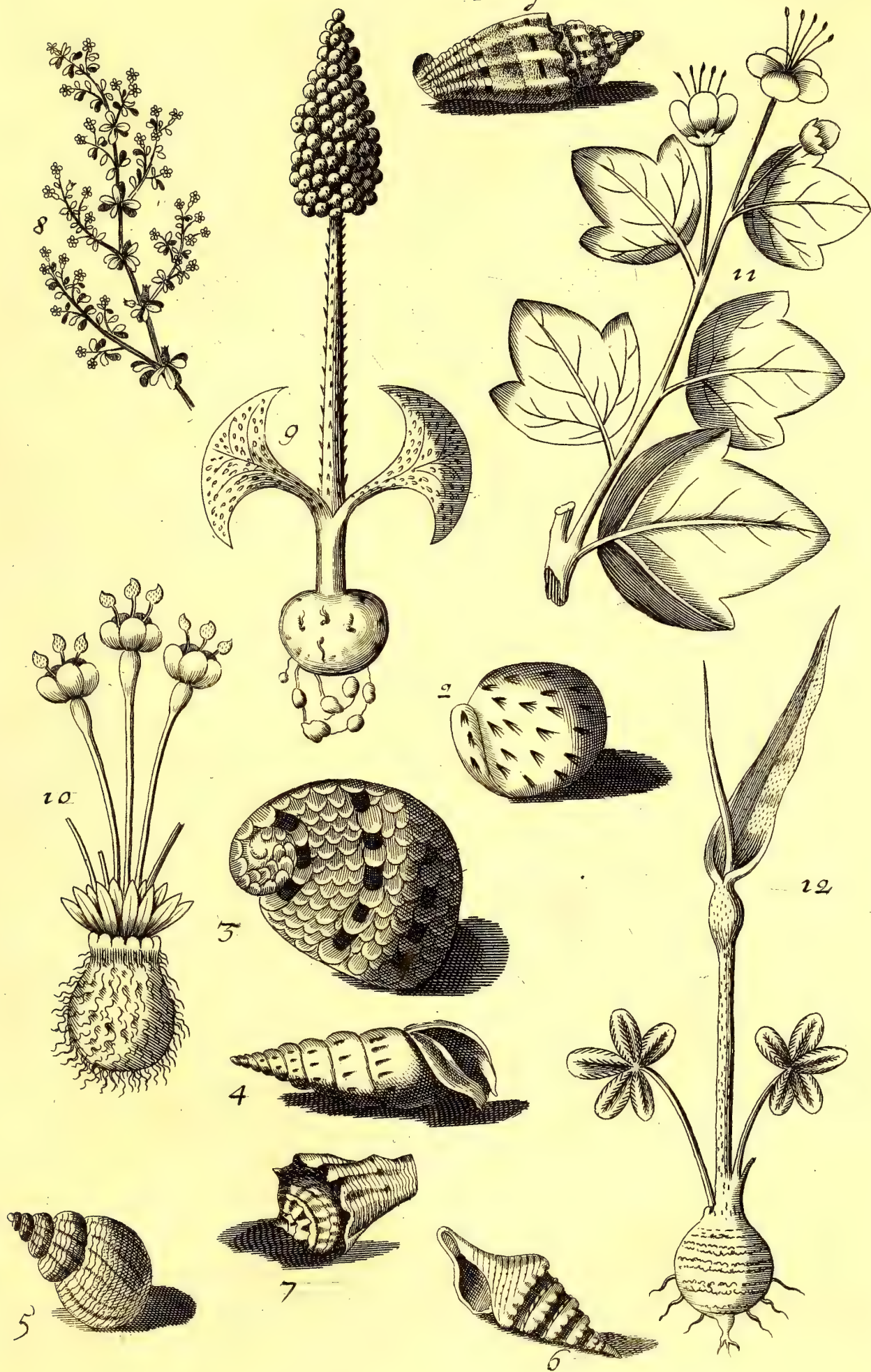


Fig. 1

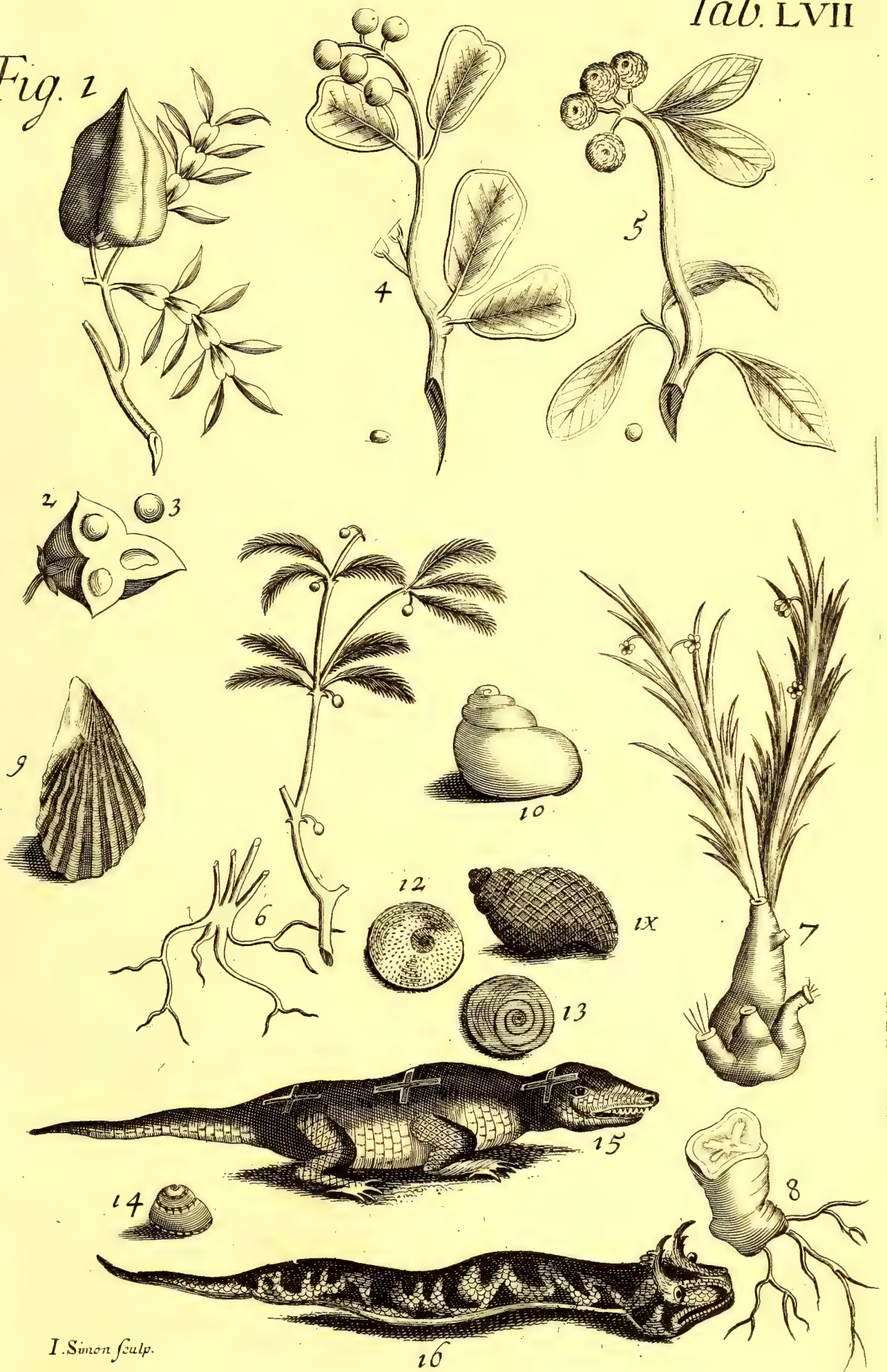
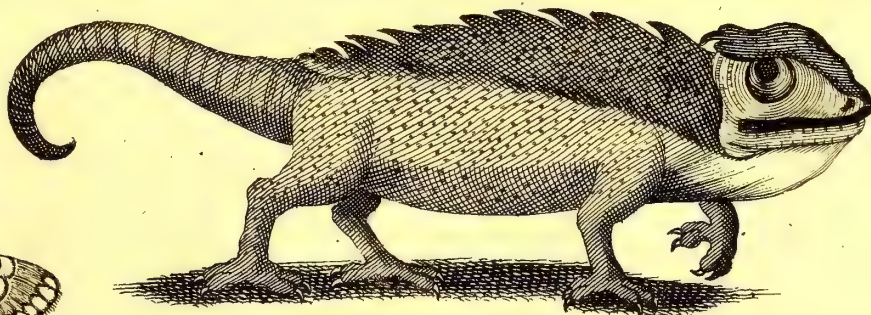
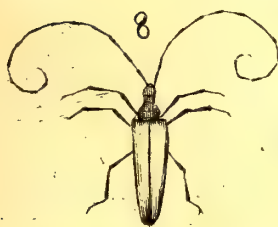
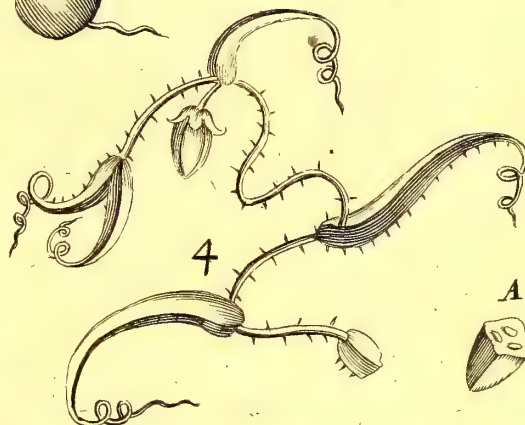
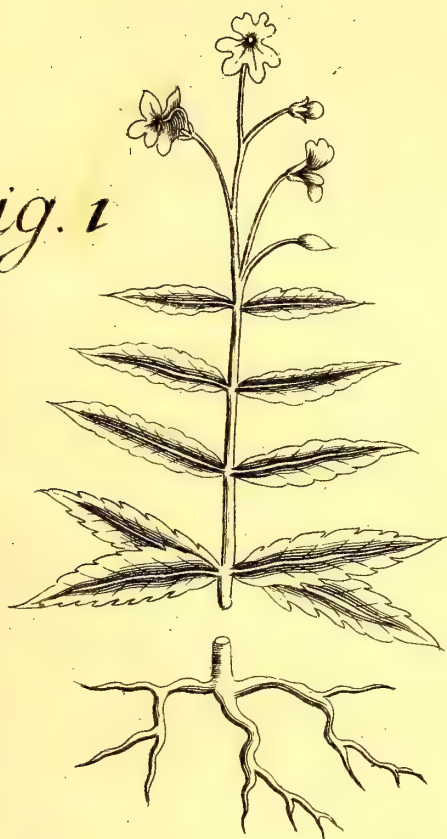
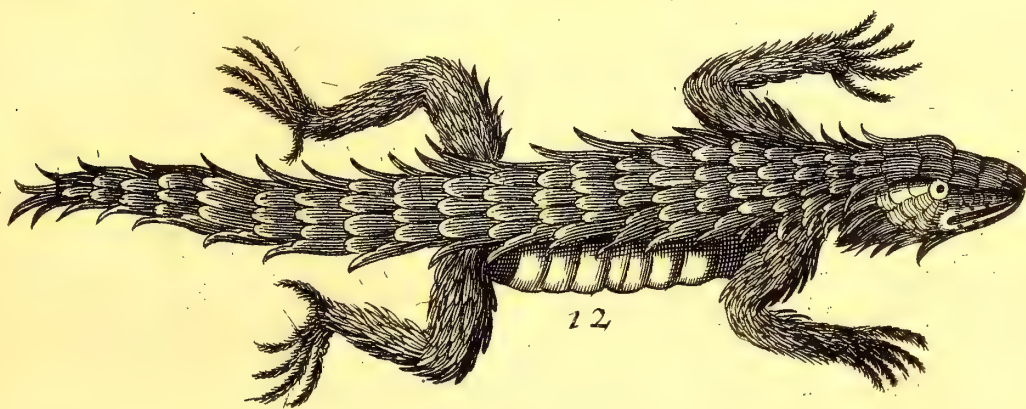




Fig. 1



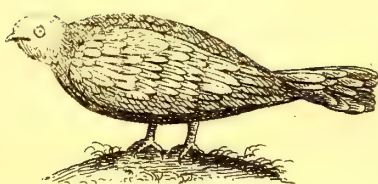
LX



12



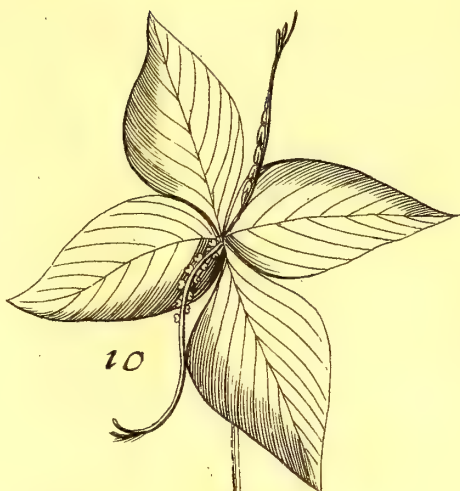
Fig. 1



2



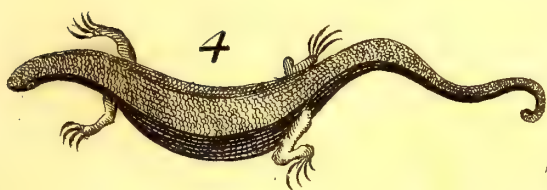
9



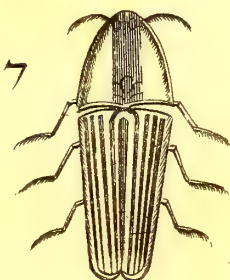
10



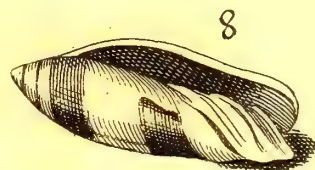
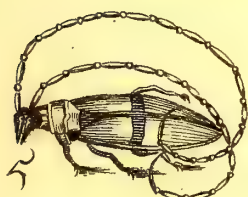
11



4



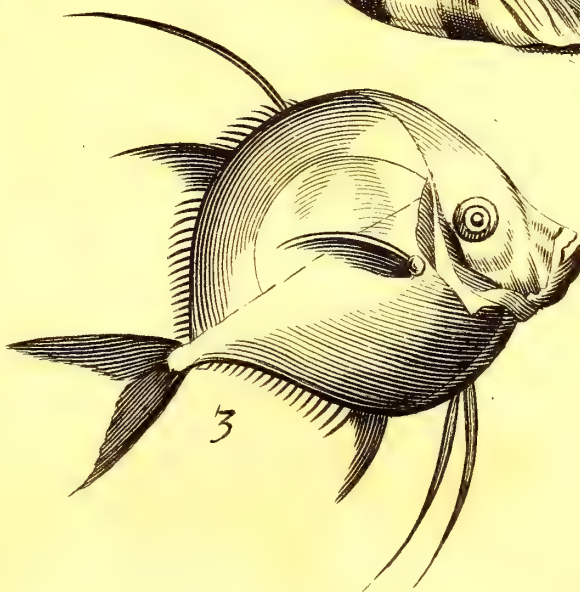
7



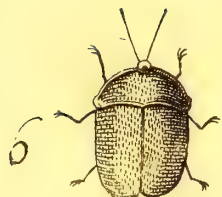
8



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3



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Tab LX

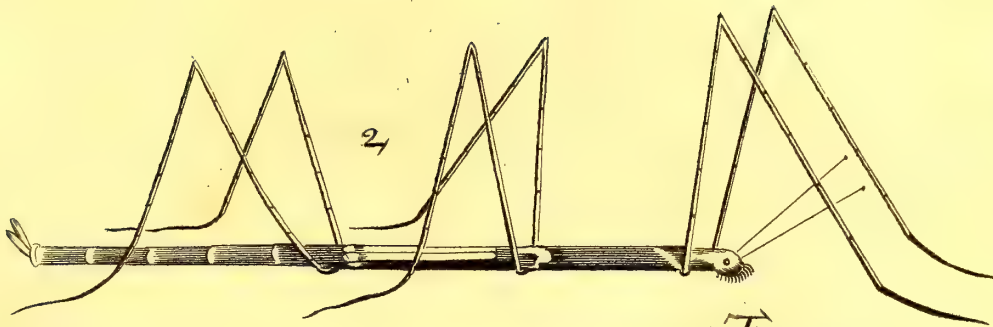


Fig 1

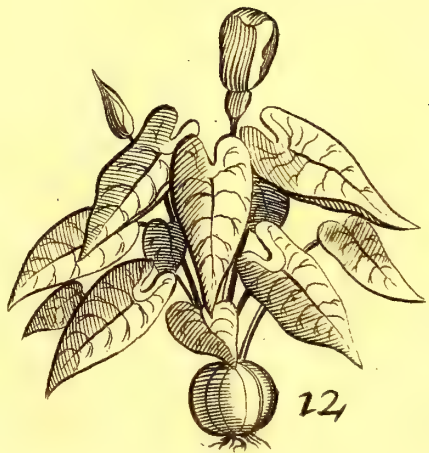
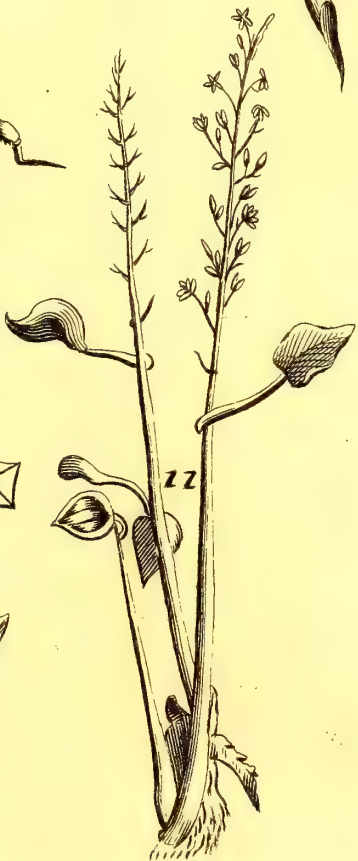
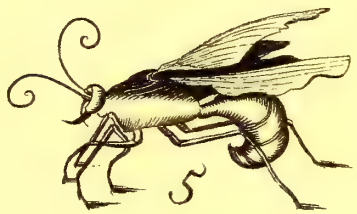
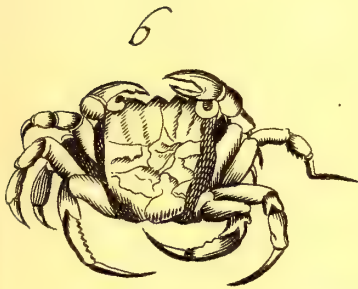
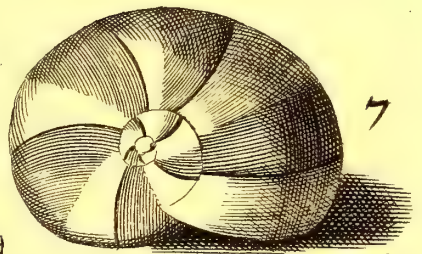
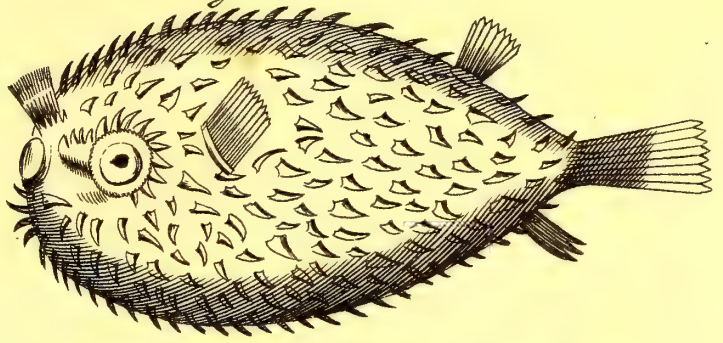
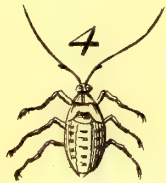




Fig 1

Tab. LXI



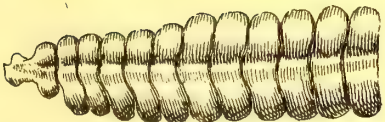
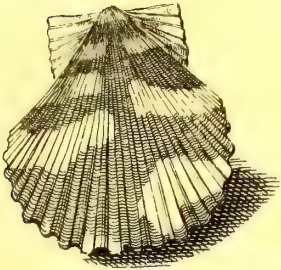
Fig 1



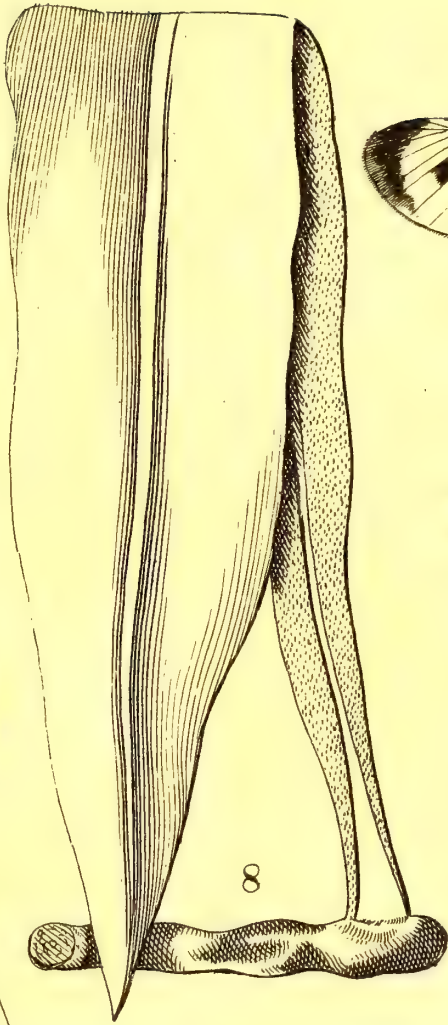
2



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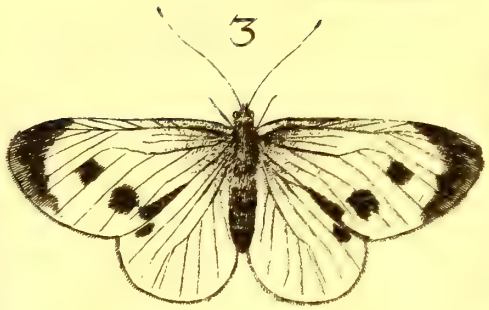


6

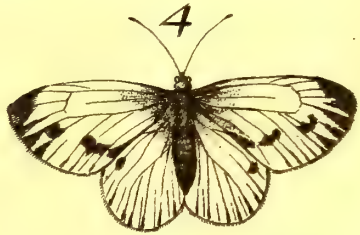


8

3



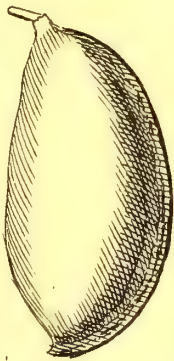
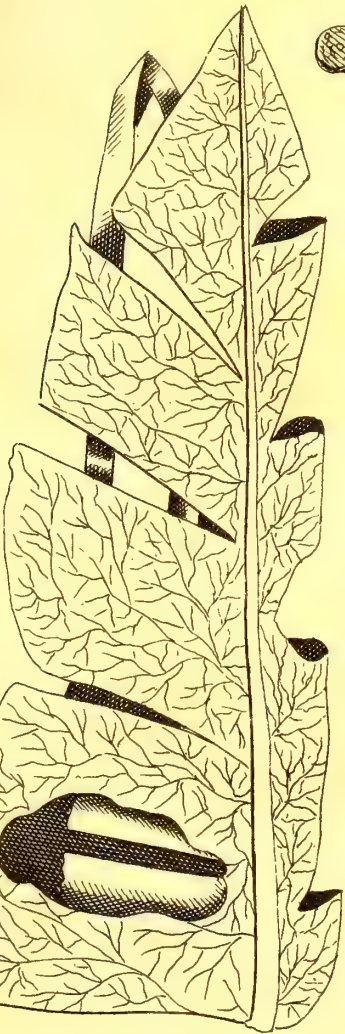
4



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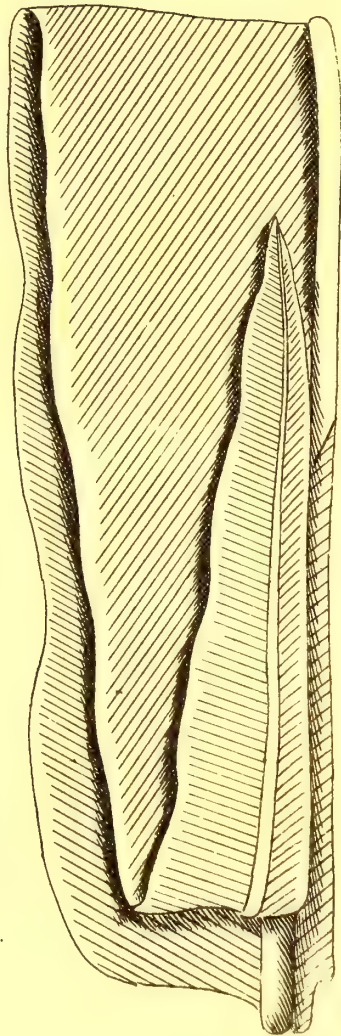


Fig. 1

Tab LXIII

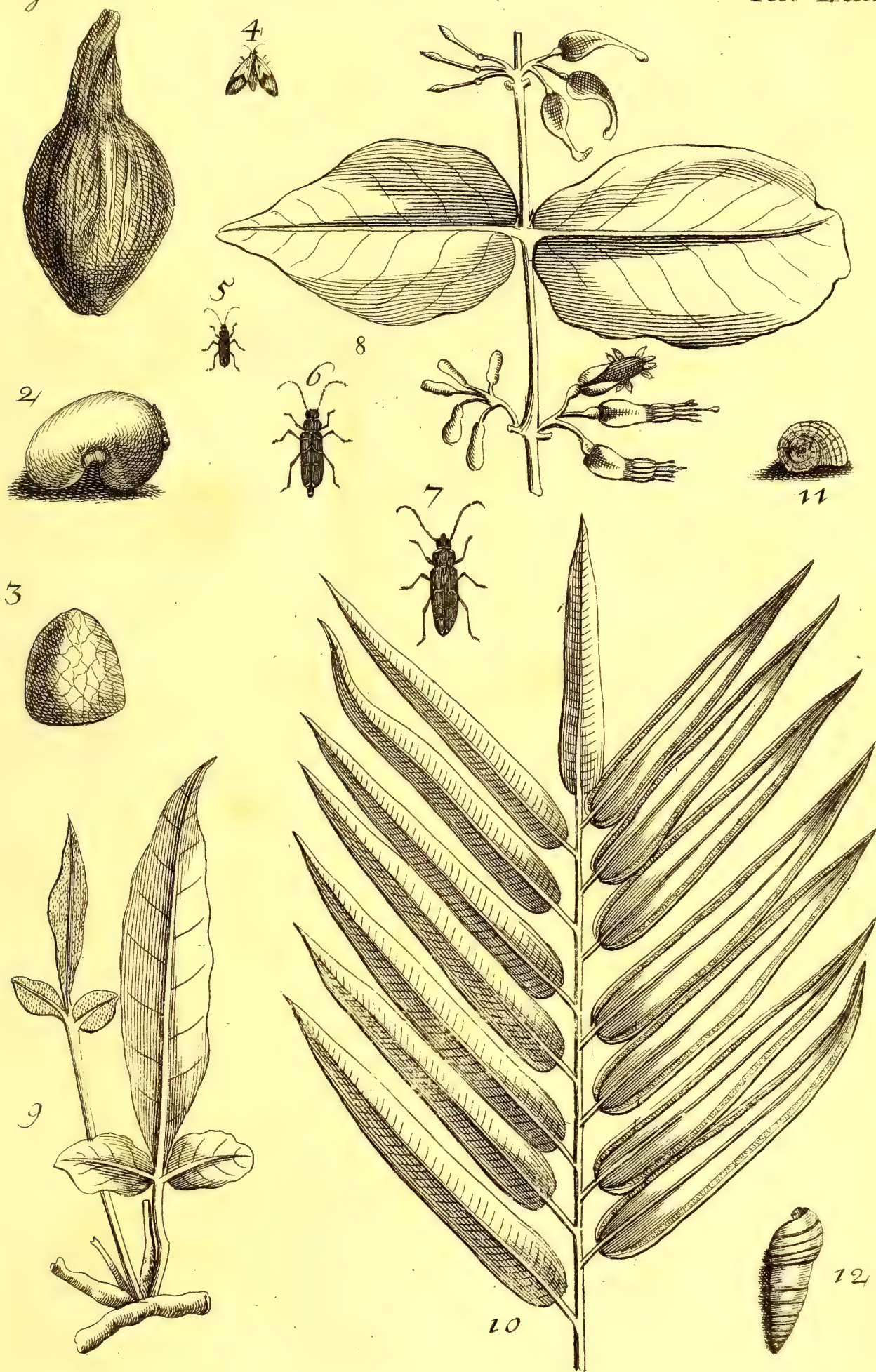


Fig. 1



Fig 1



Fig. 1.

13

TAB. LXVI



TABLXVII

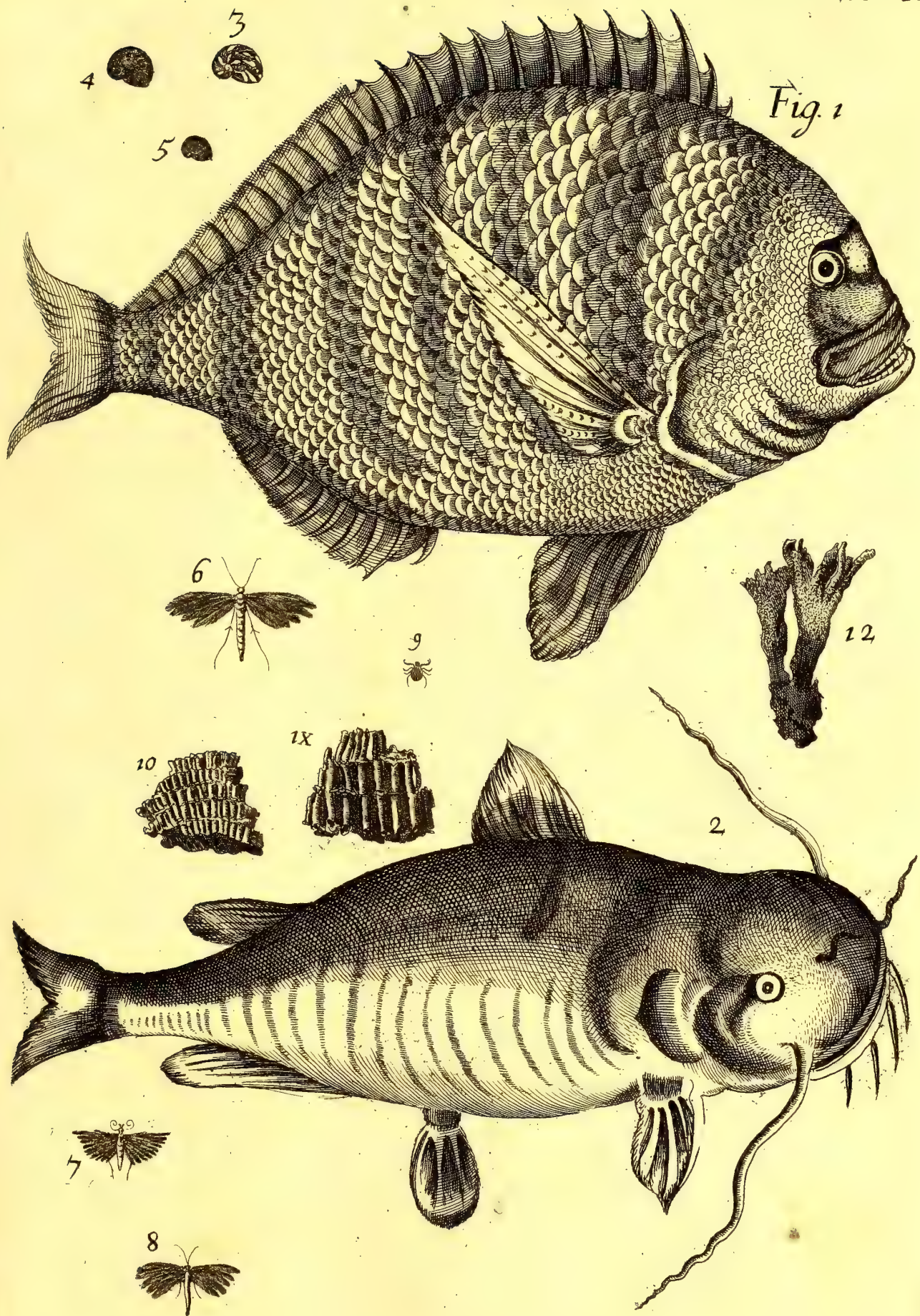
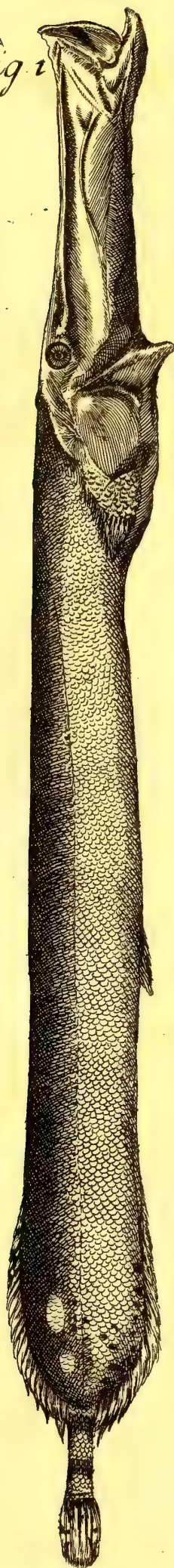
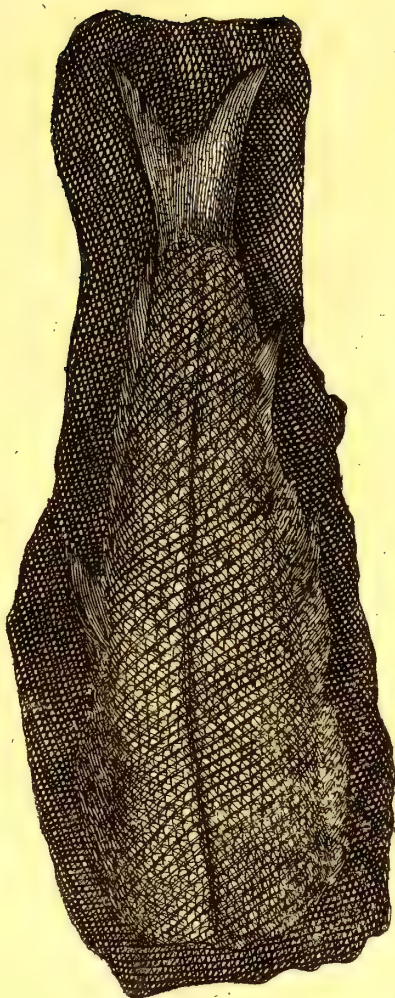




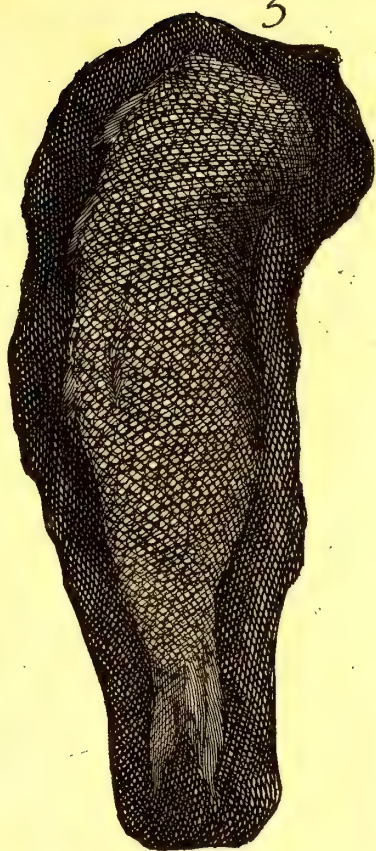
Fig 1



2



3



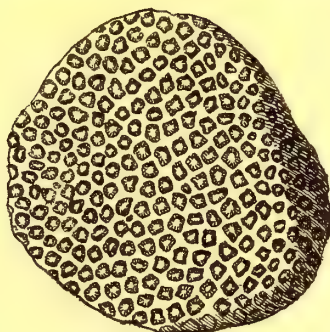
7



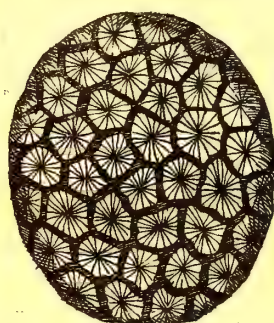
6



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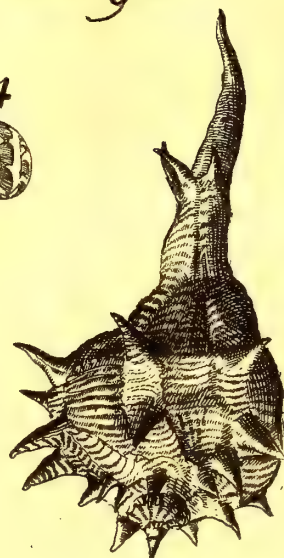


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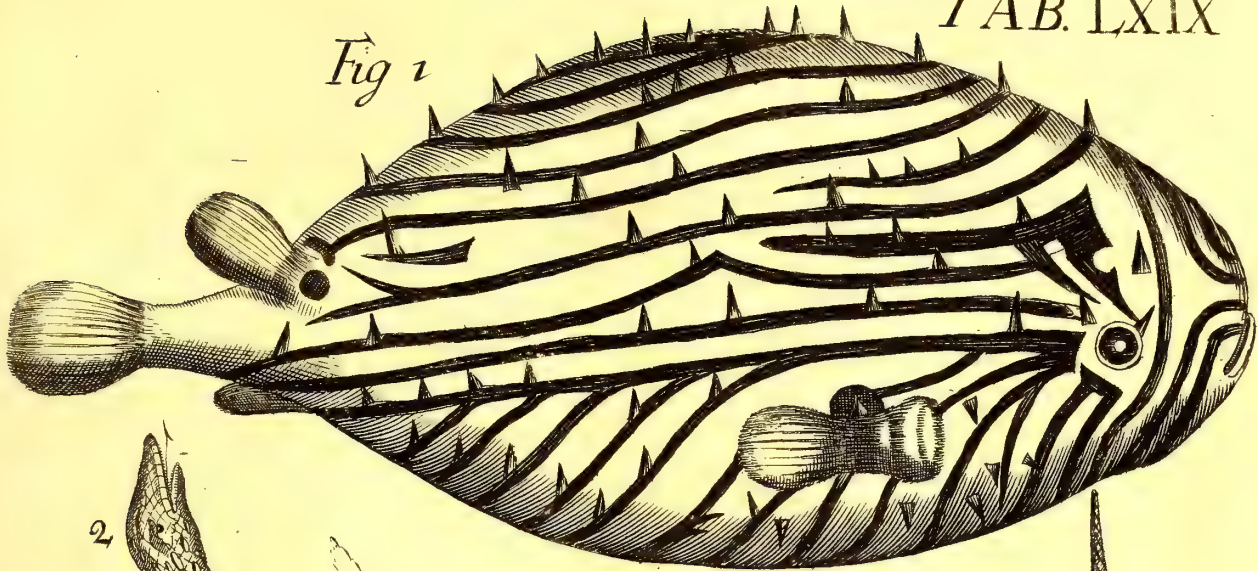


5



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Fig 1



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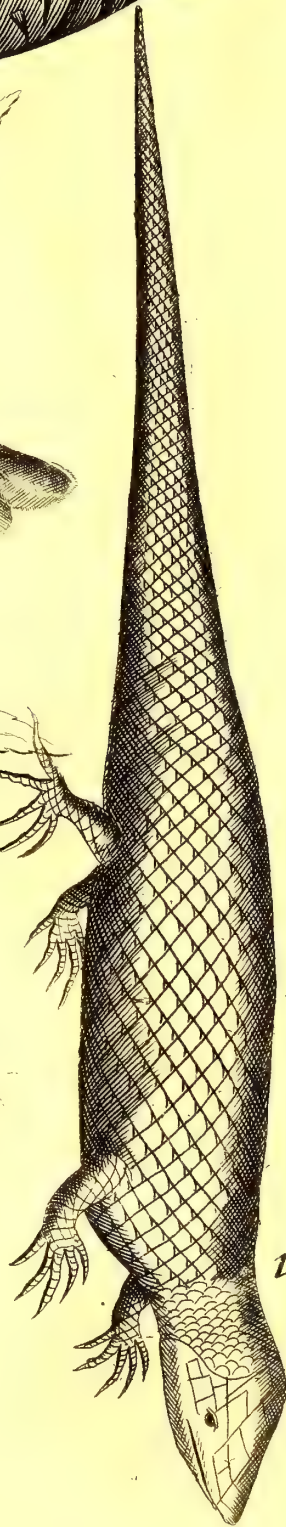


Fig 1

Tab. LXX

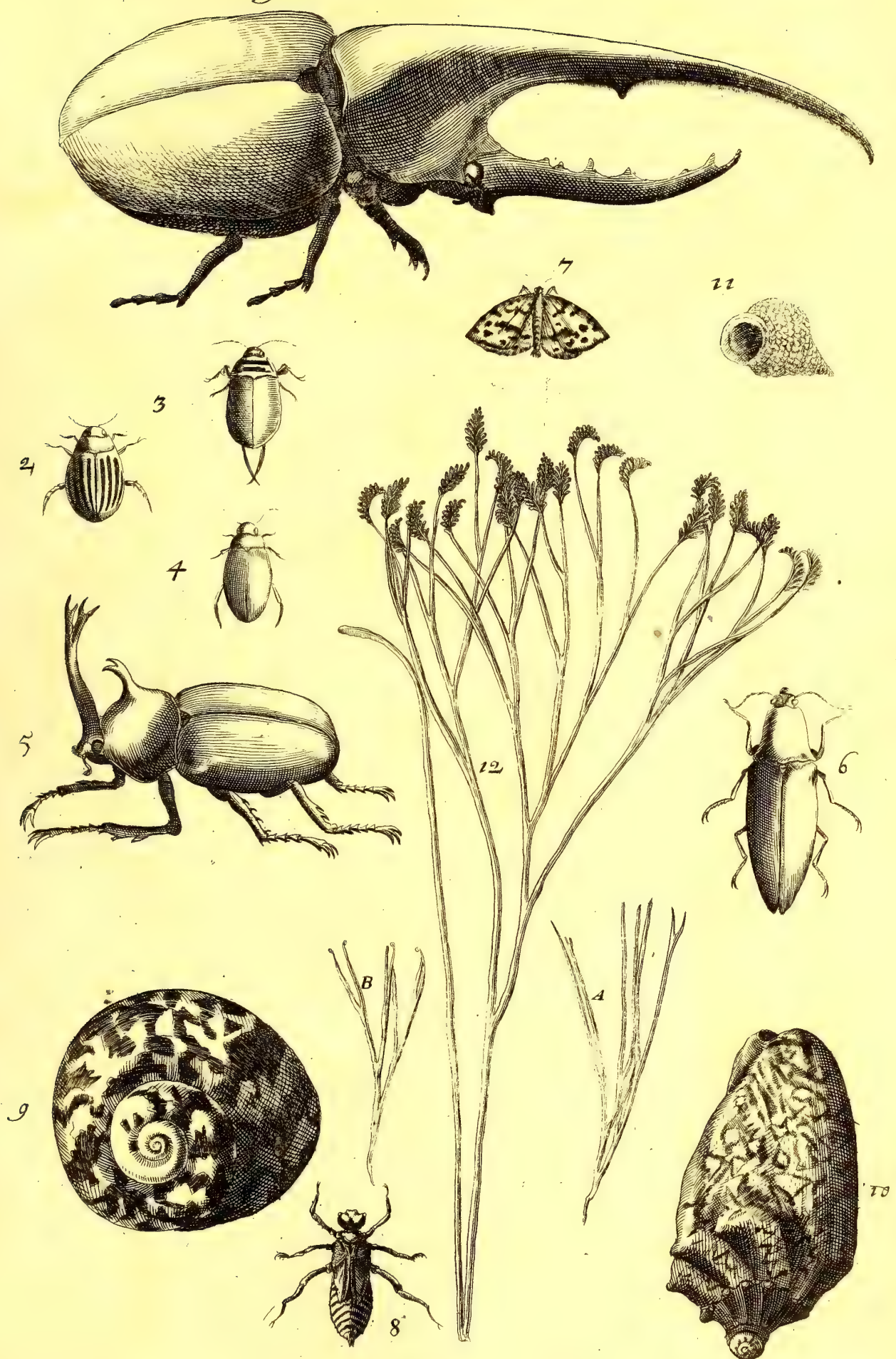
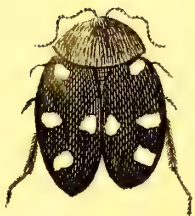
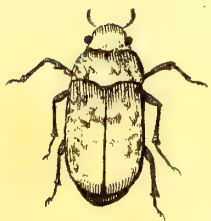


Fig. 1



2

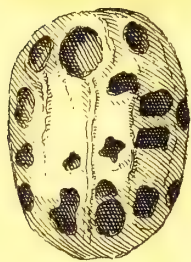


3



4

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6



7



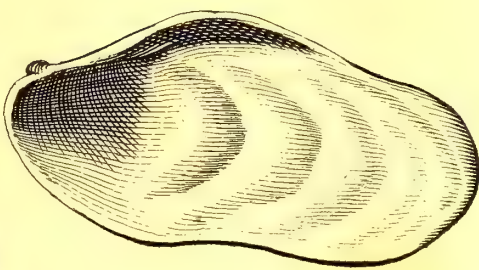
8



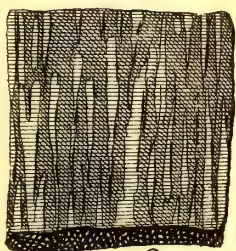
9



XI



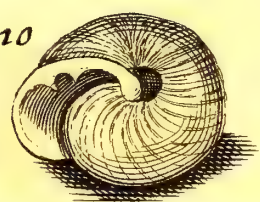
12



13



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TABLXXII

Fig 1



FIG. 1.



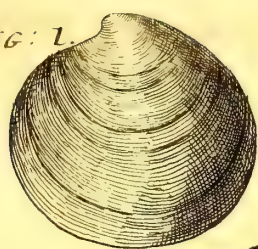
FIG. 1.



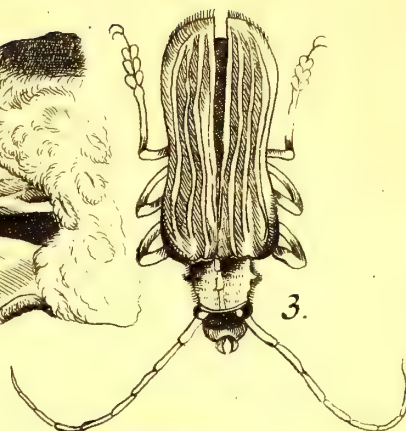
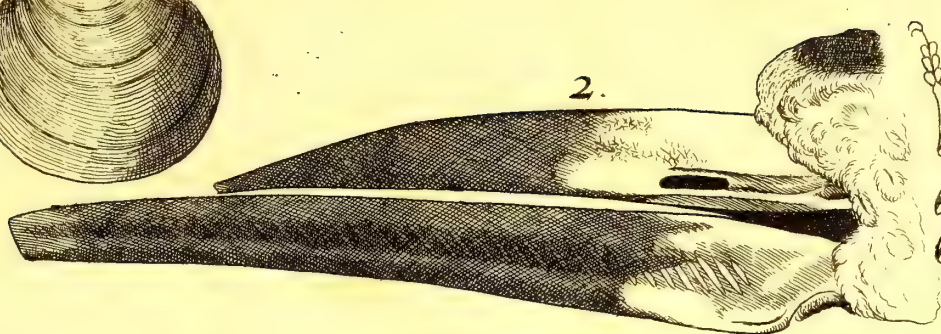
FIG. 1.



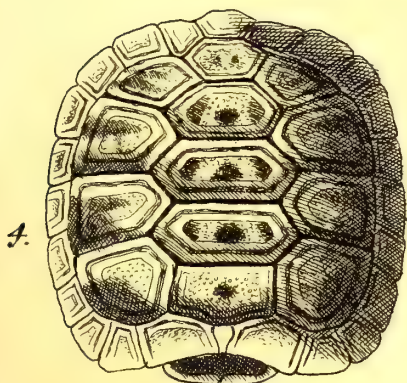
FIG. 1.



2.



3.



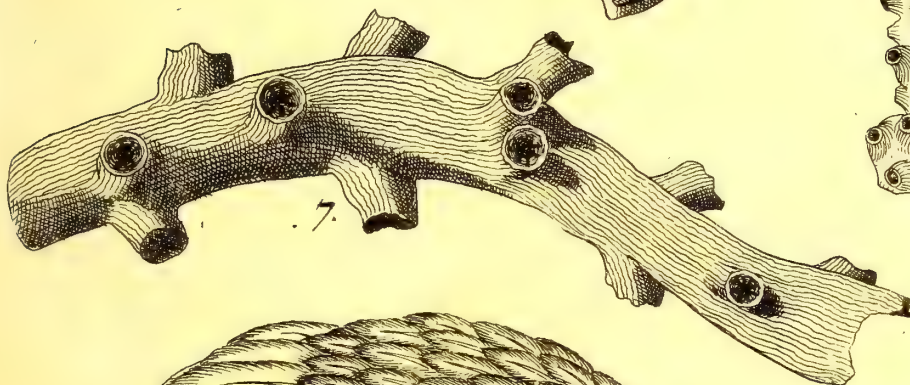
4.



5.



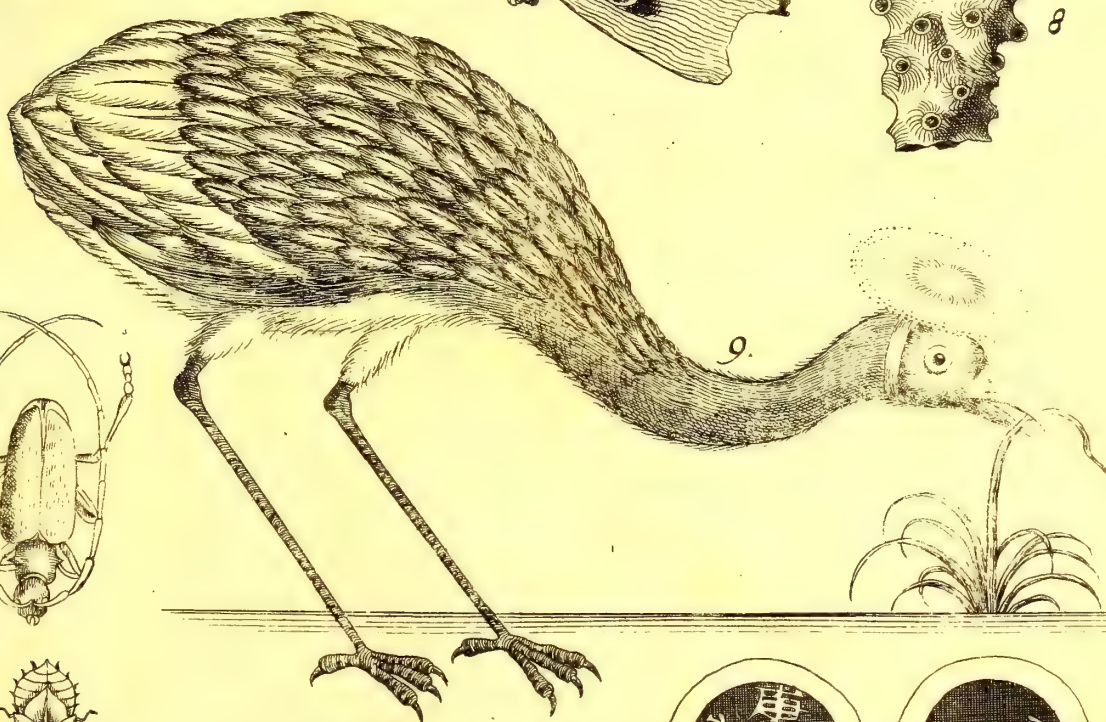
6.



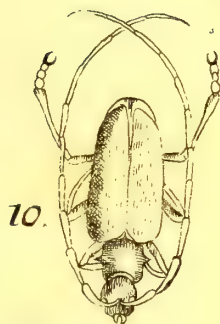
7.



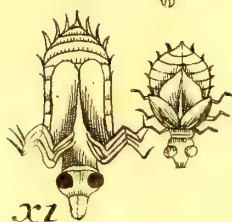
8.



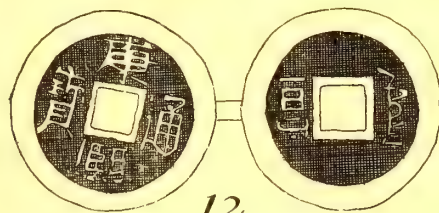
9.



10.



11.



12.

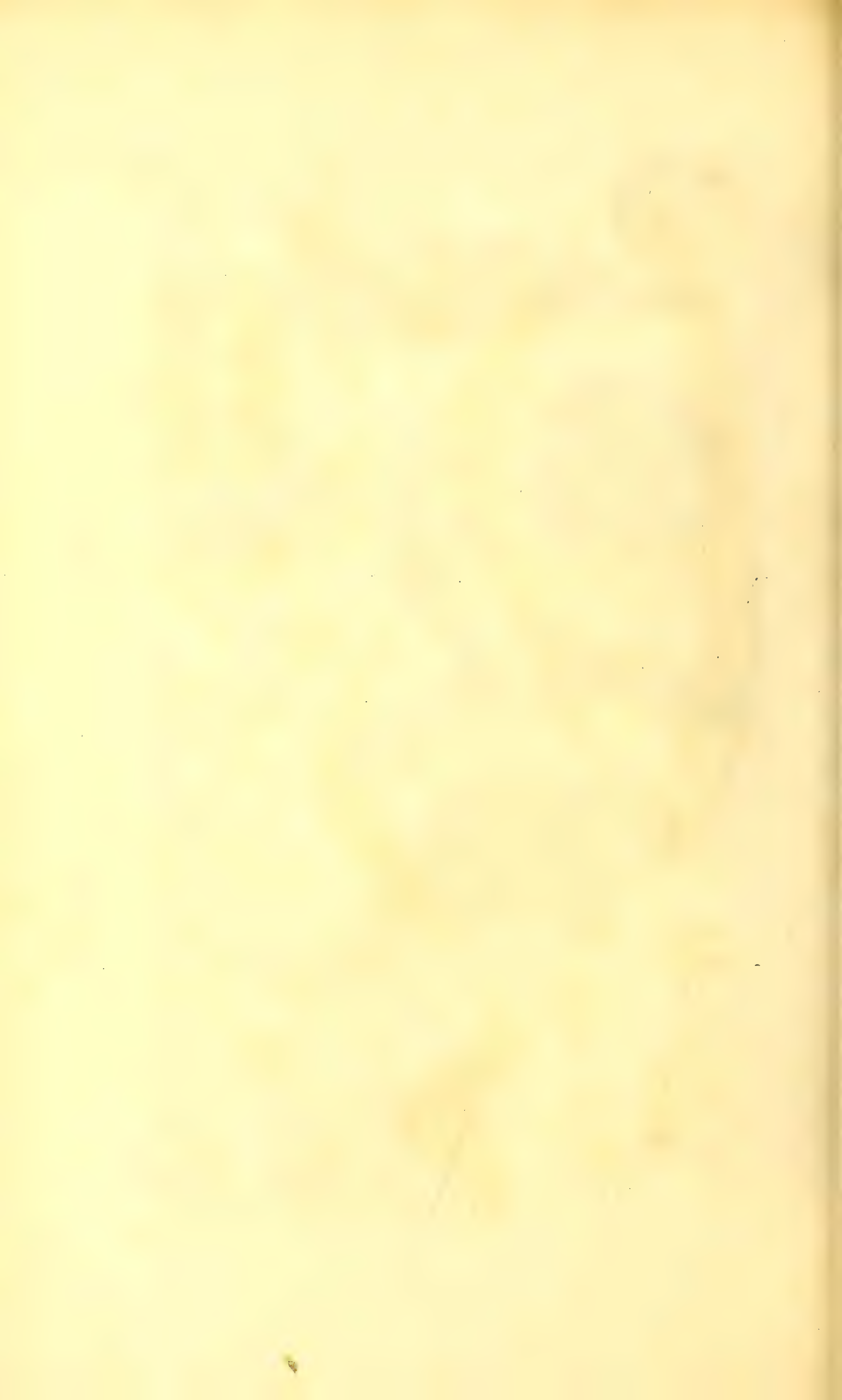


FIG. 1.





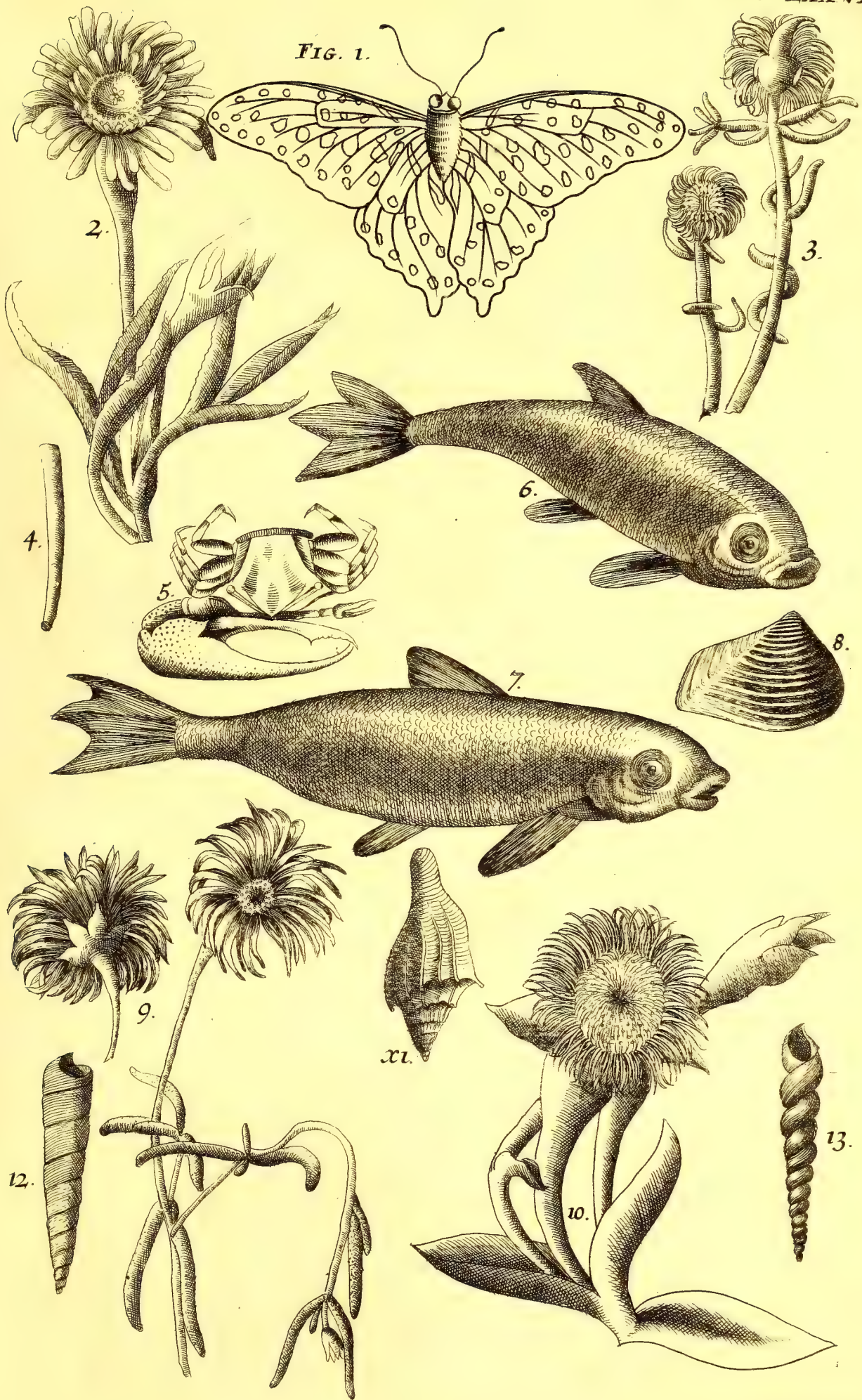


FIG. 1.

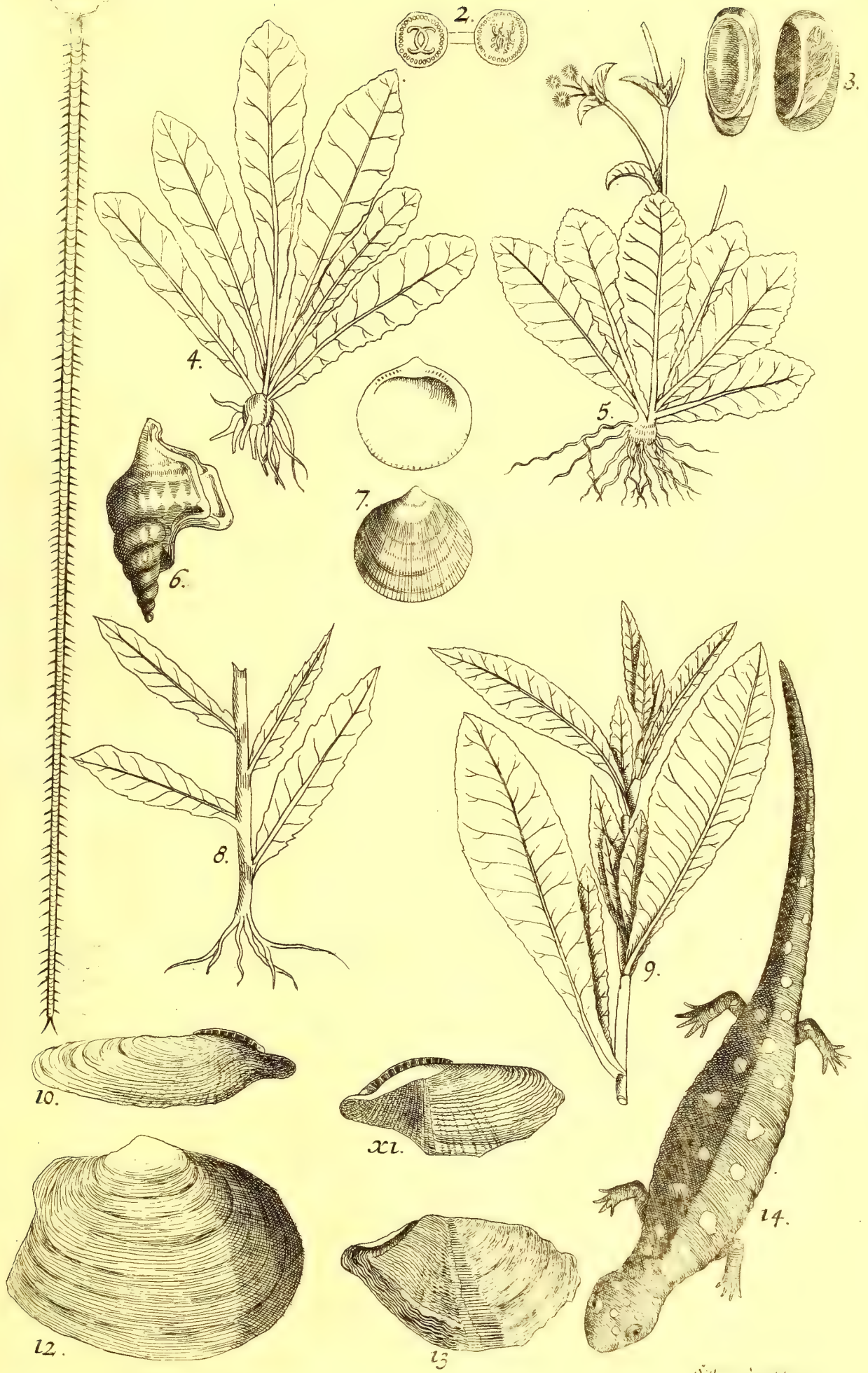




FIG. 1.
CATAL
422.

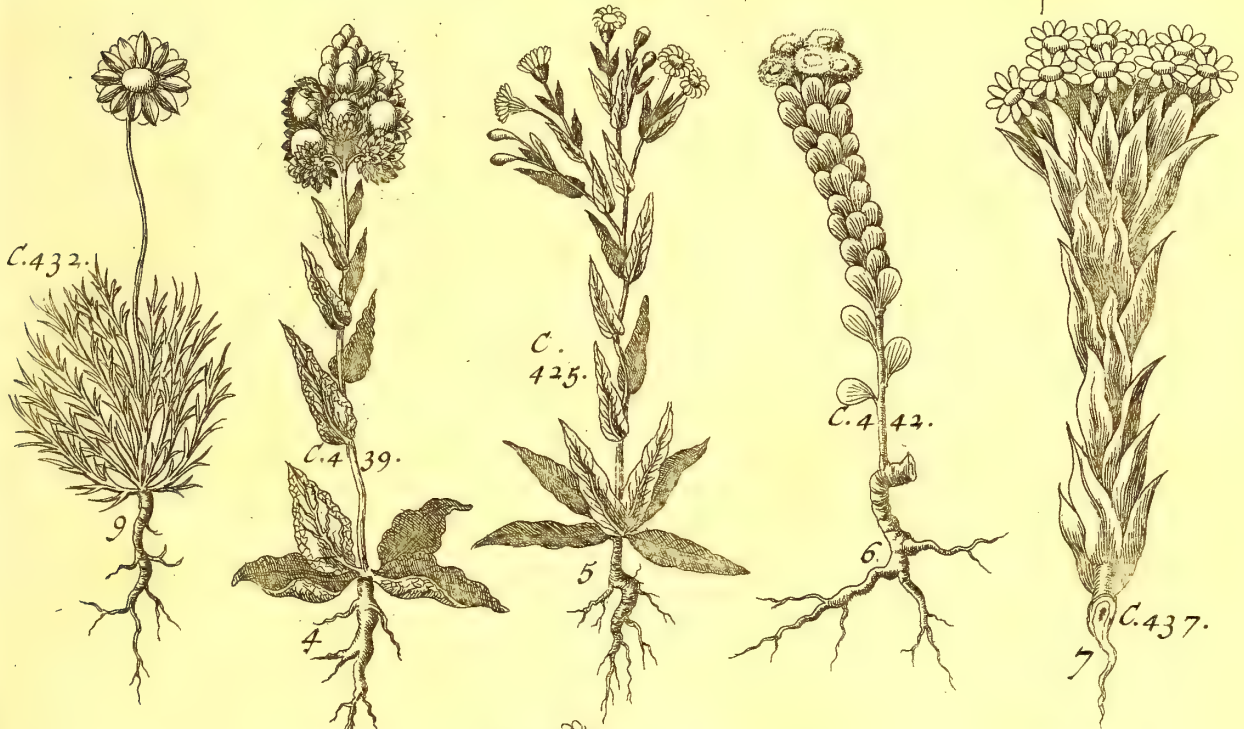




FIG. 1.
CAT. 462.



2 C. 514.



3 C. 515.



4 C. 512.

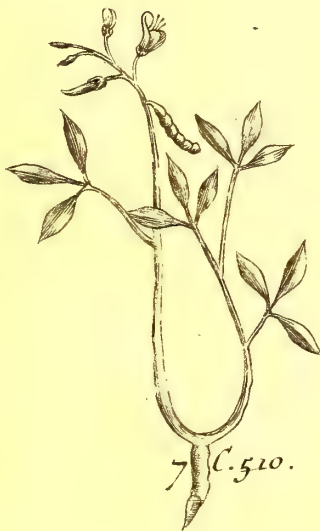
C. 513.



5



6 C. 509.



7 C. 510.



8 C. 511.



C. 516.

9



10



x1



C. 461.

12



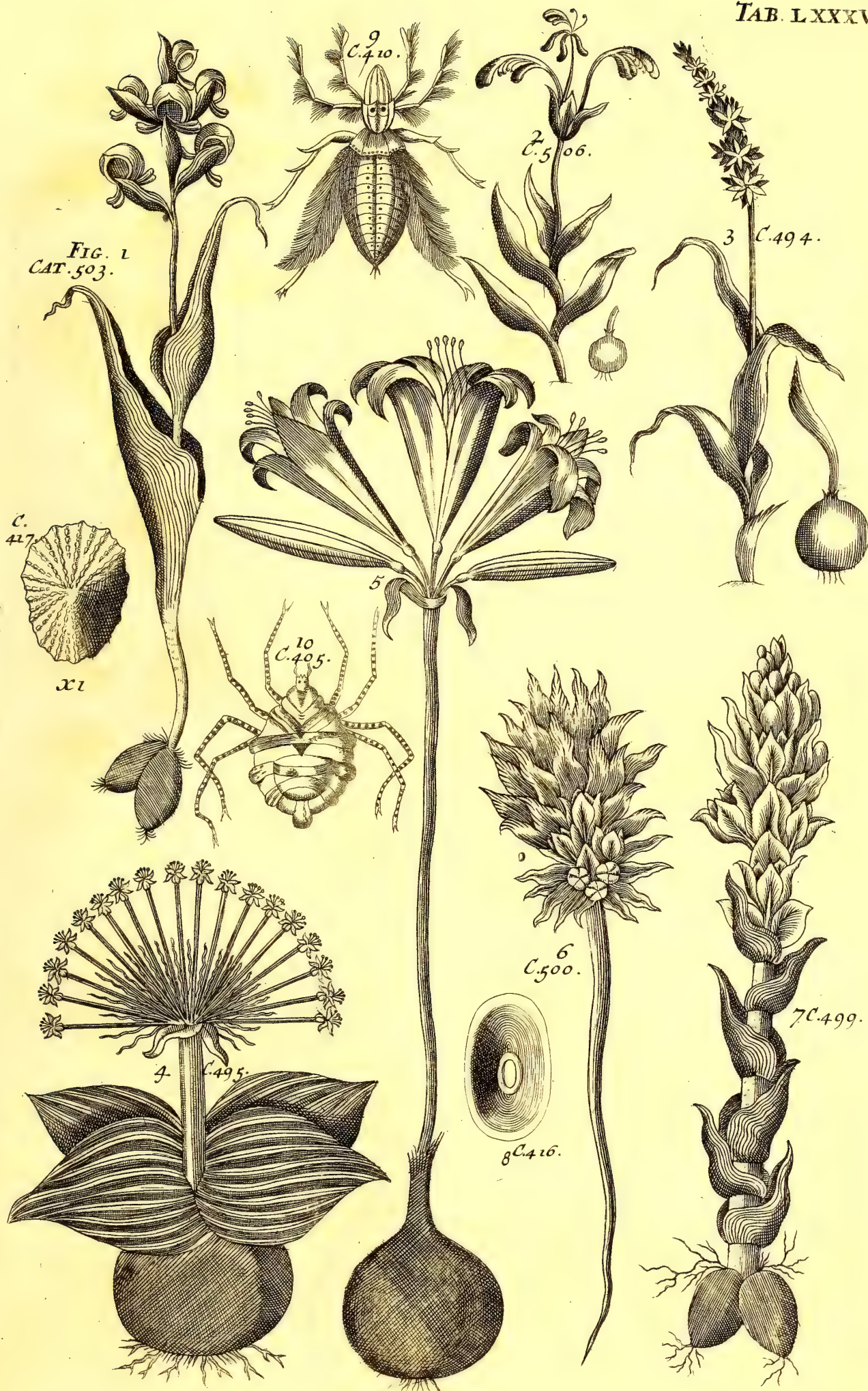


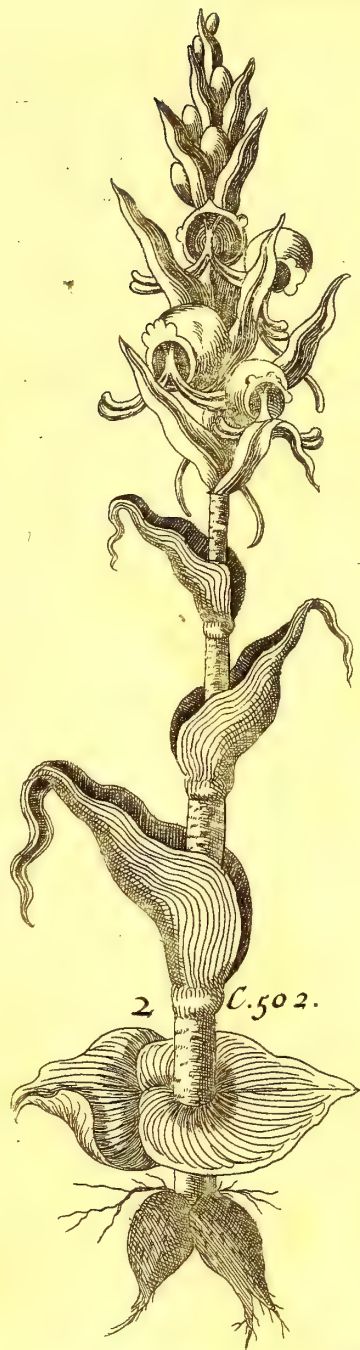
FIG. 1
CAT. 501.



3
C. 504.

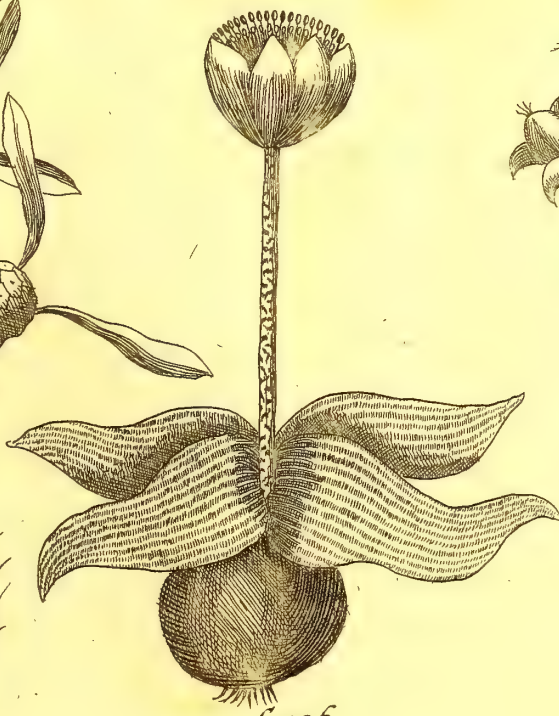


2 C. 502.



C. 519.

5



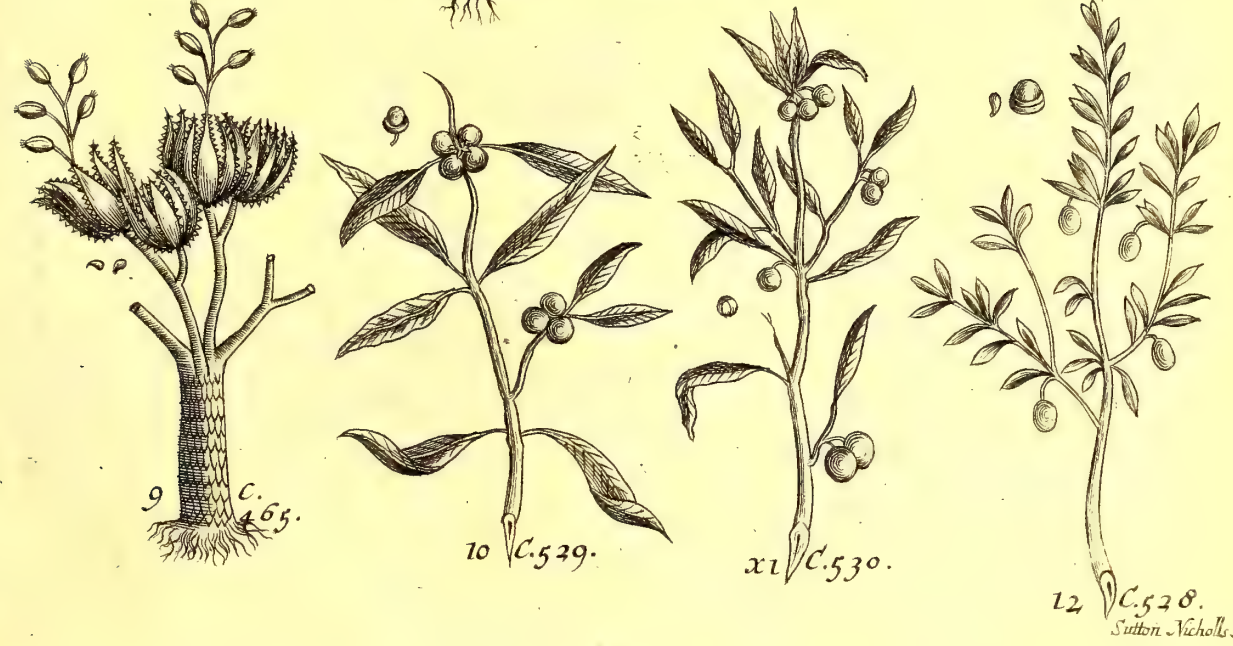
4 C. 496.



6 C. 520.

Sutton Nicholls sculp

FIG. 1.
CAT. 498.



Sutton Nicholls sculp



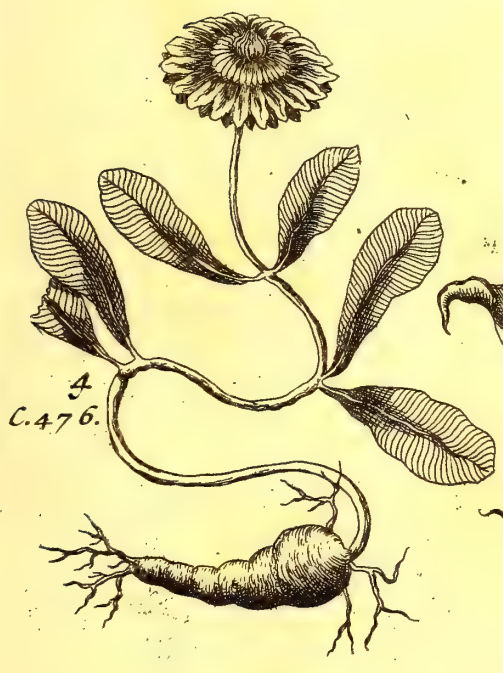
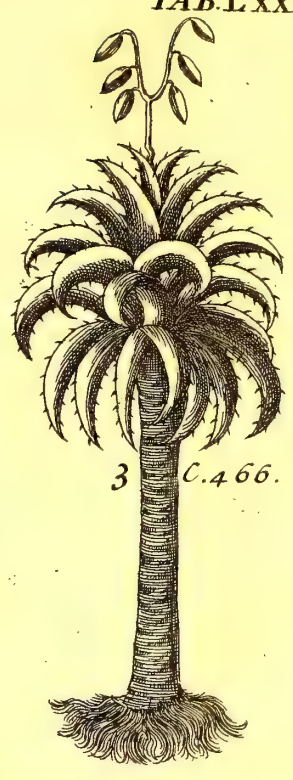
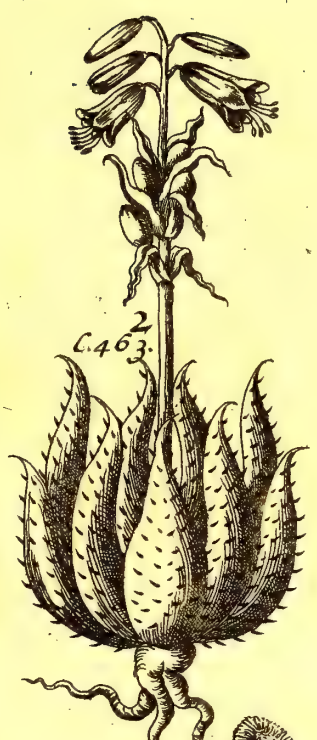
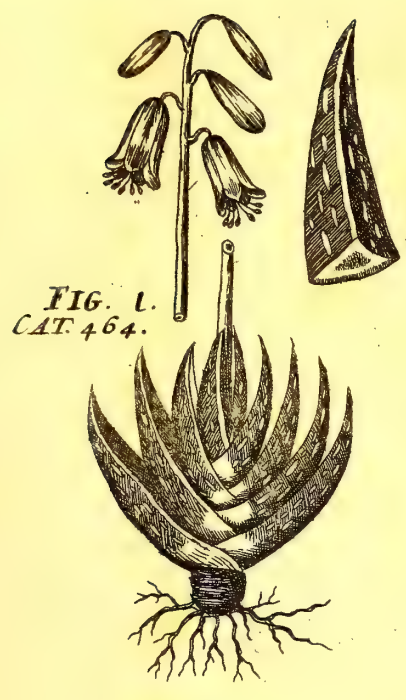
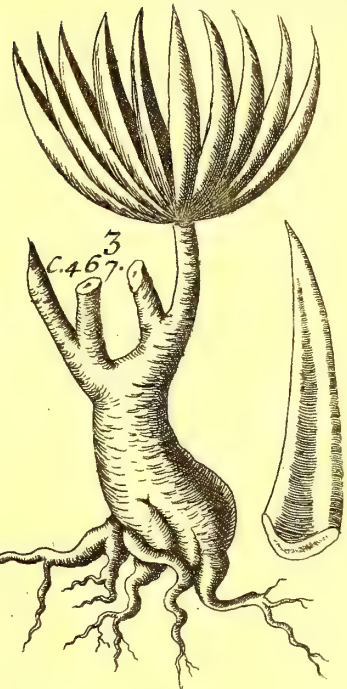


FIG. 1.
CAT. 469.



2 C. 468.



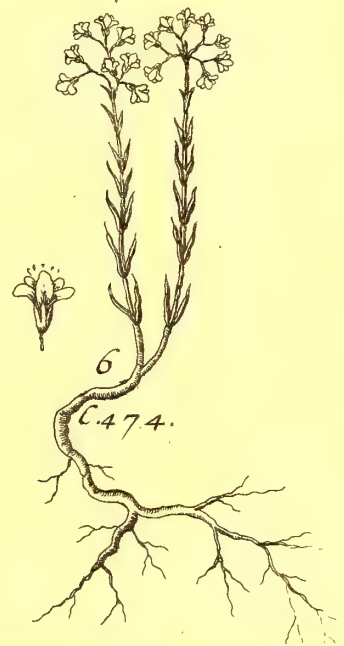
3 C. 467.



4 C. 470.



5 C. 472.



6 C. 474.



7 C. 473.



8 C. 473.



9 C. 475.

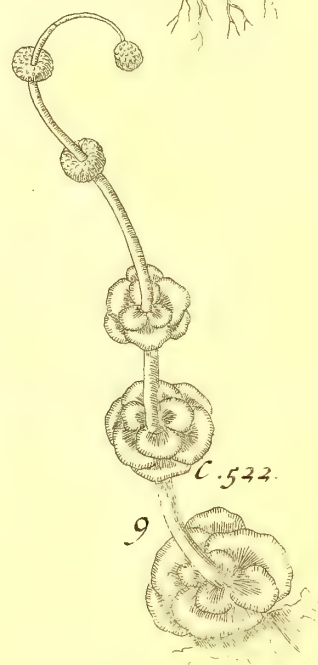
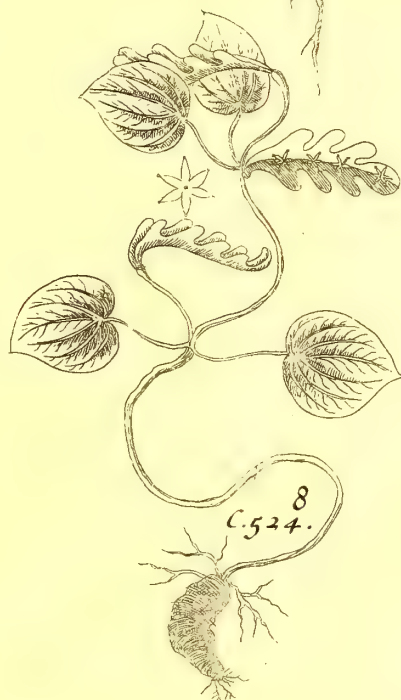
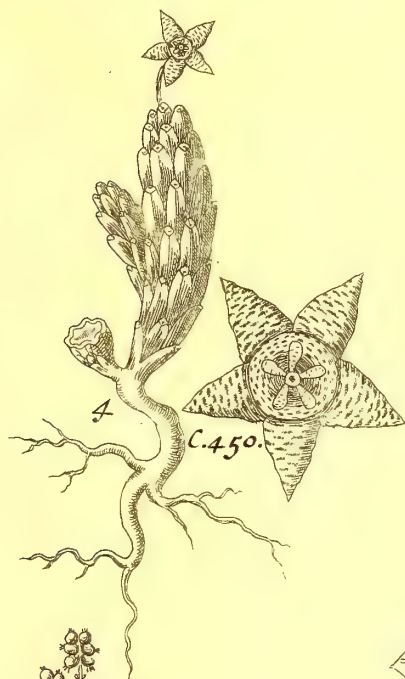
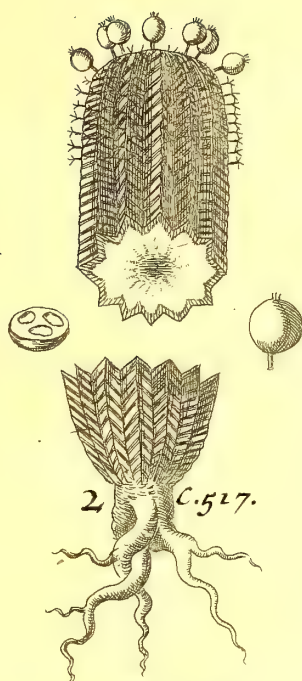
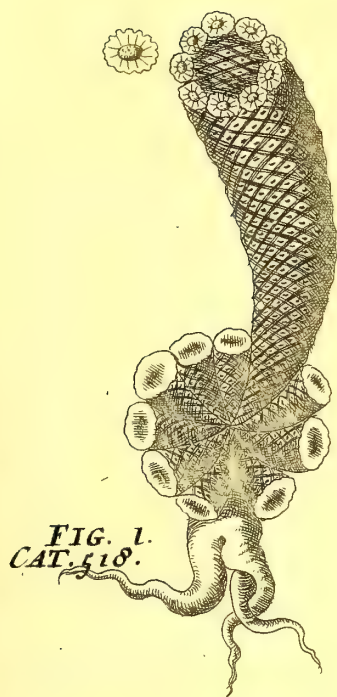


FIG. 1.
CAT. 128.

TAB. XCI.

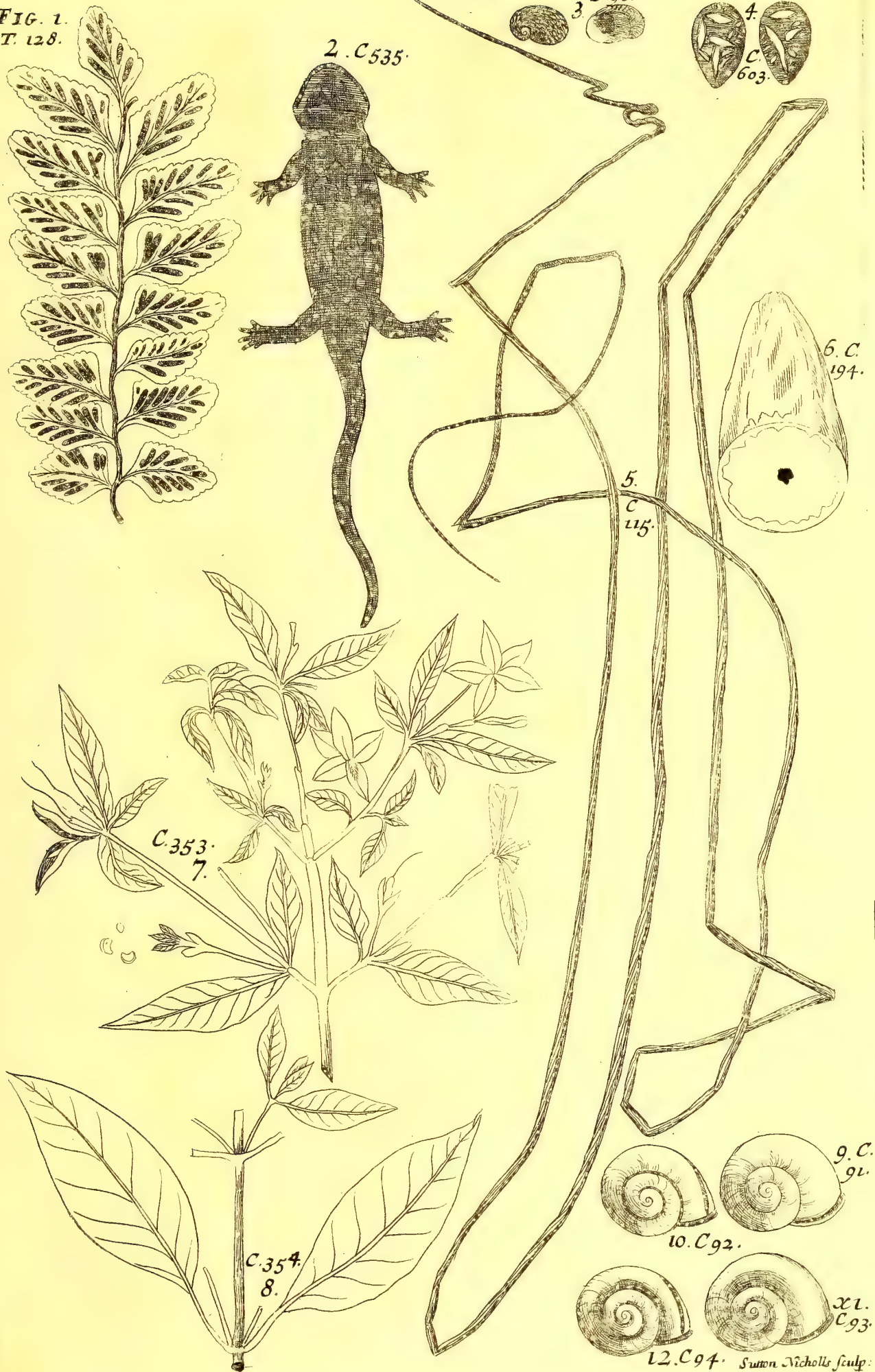
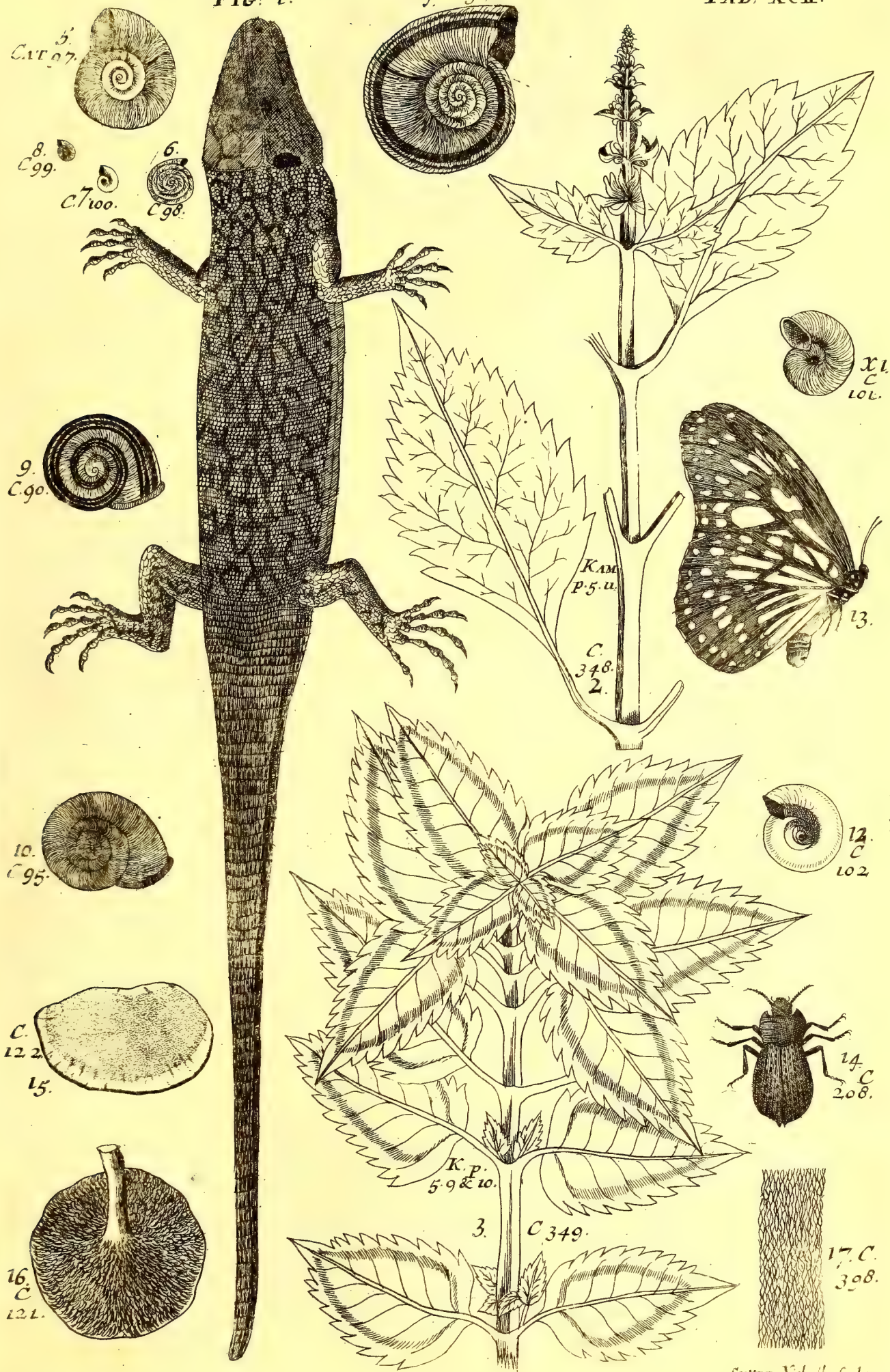


FIG. 1.

4. C. 577.

TAB. XCII.



Sutton Niche's sculp.



TAB XCIII

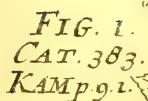
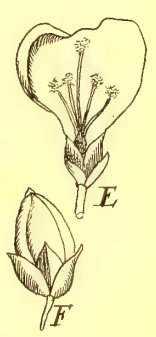
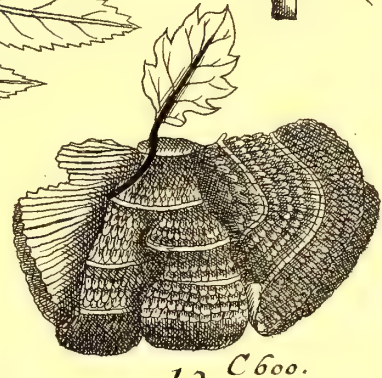
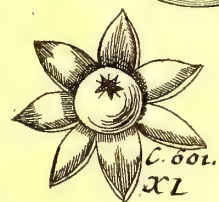
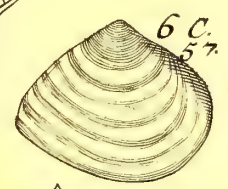
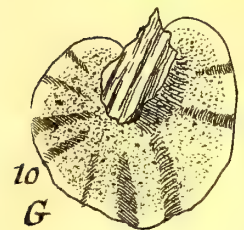
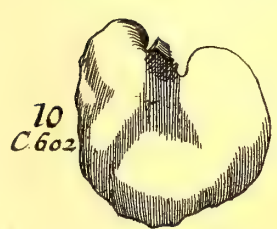
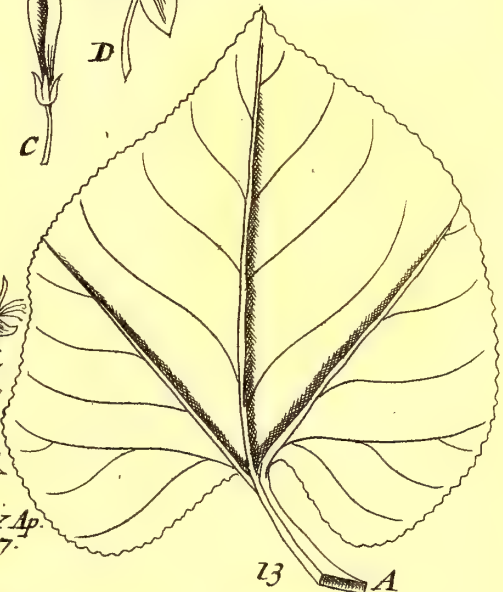
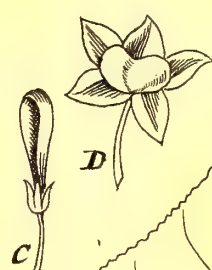
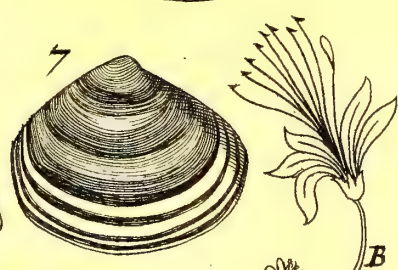
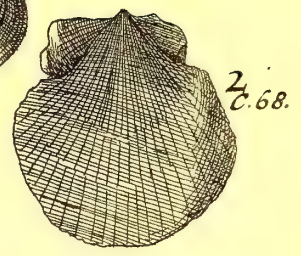
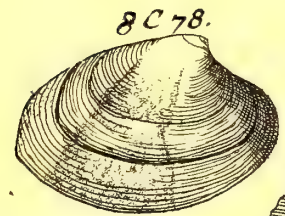
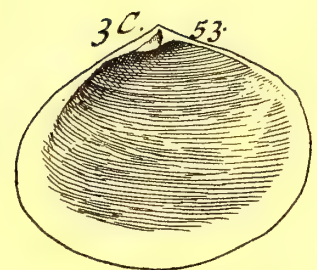
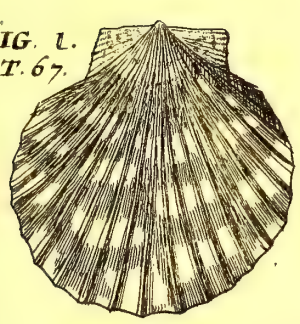
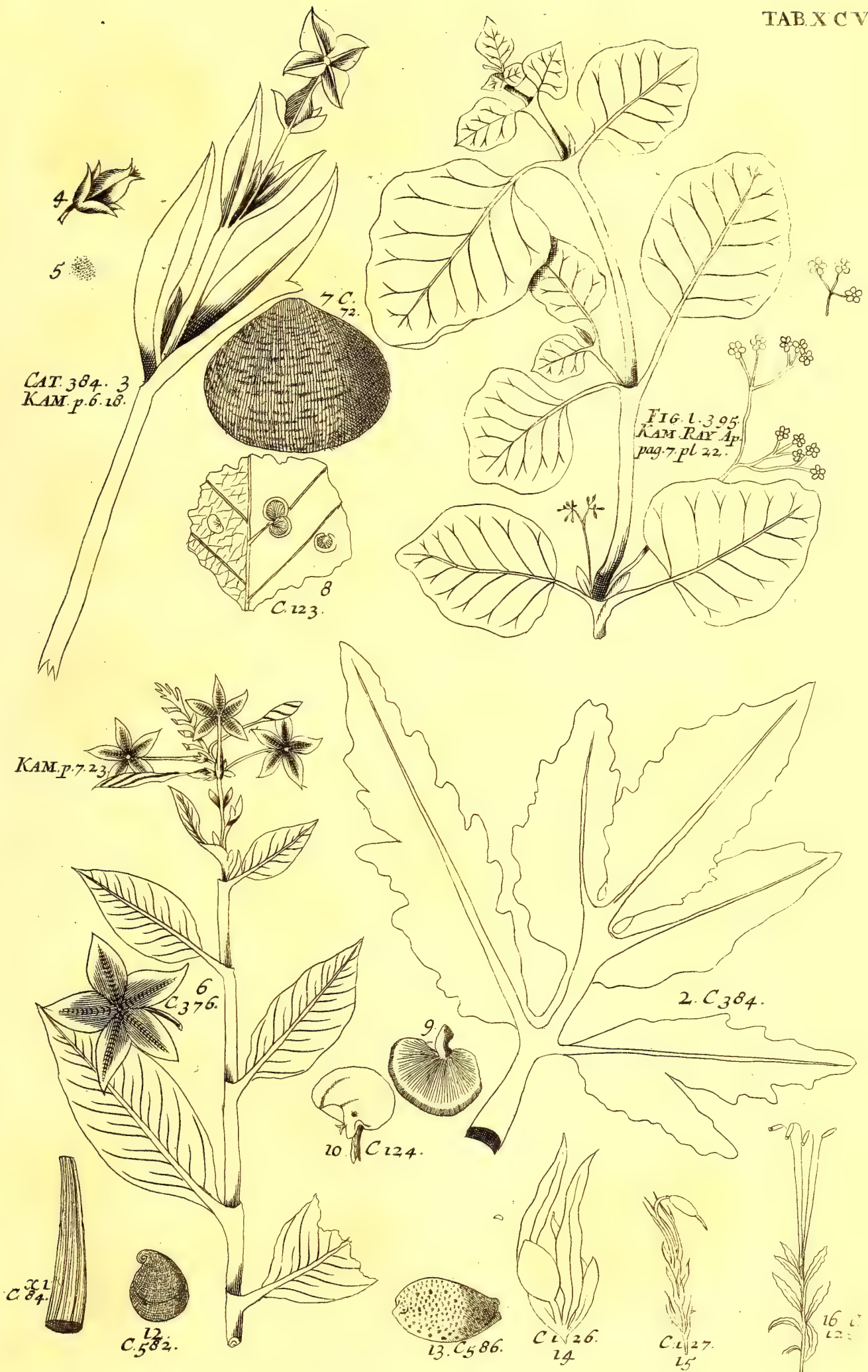
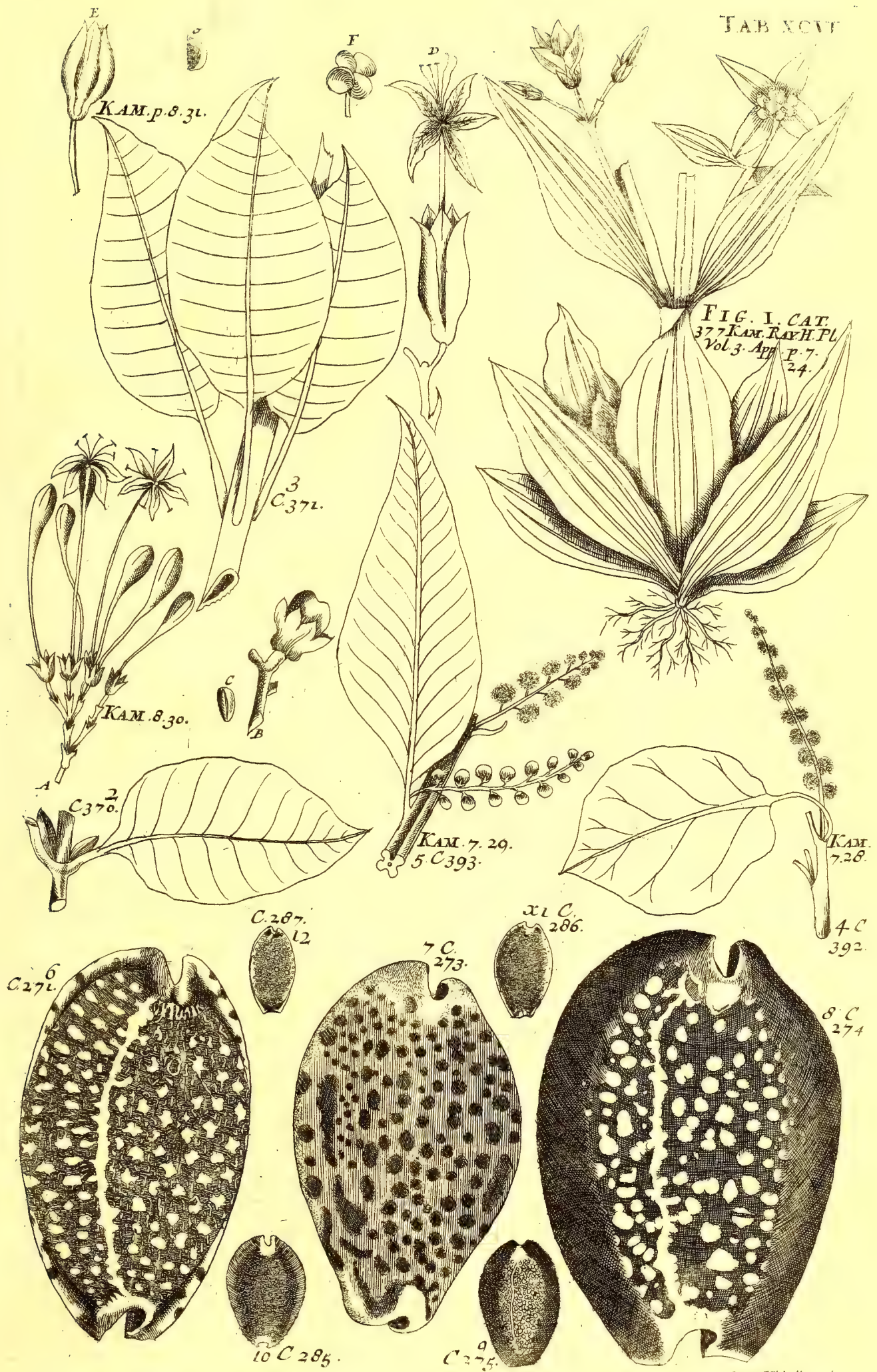


FIG. 1.
CAT. 67.







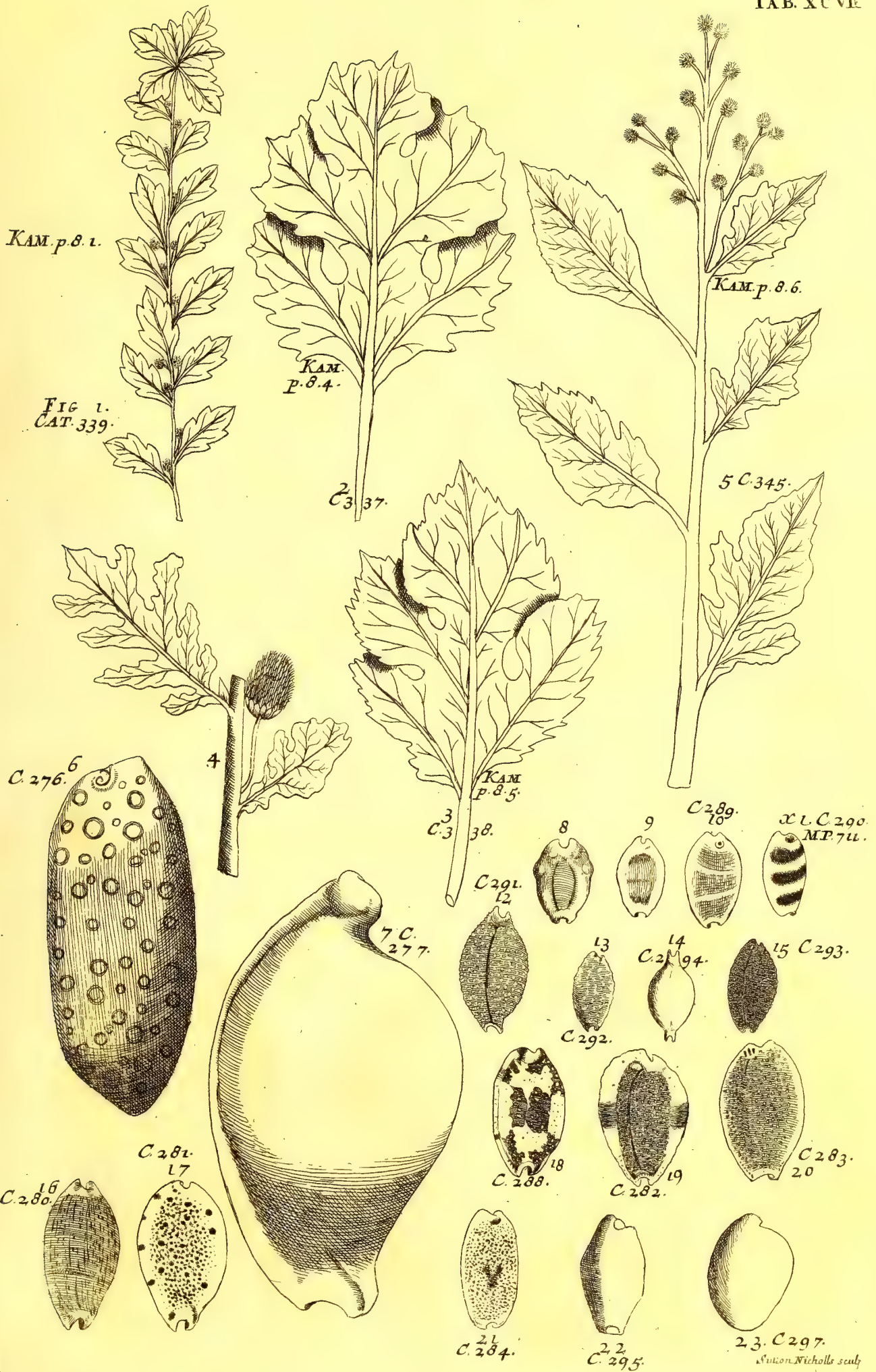


FIG. 1
CAT. 332.
KAM. p. 8. 7.

2
KAM C 335.
P. 8. 9.

KAM. p. 8. 8.
3. C 333.

KAM. p. 8. 10.
4 C 334

KAM. 8. 12.
C 336.

KAM. p. 5. 8.

6 & 7 C 346.

8
C.
244.

C.
251.
X2

13
C. 252.

C.
245.
9

C 243

C 253.
12.

14. C.
254.

C. 229.

18

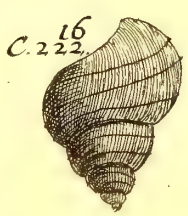
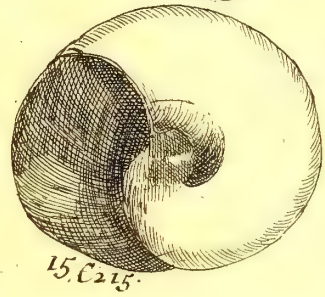
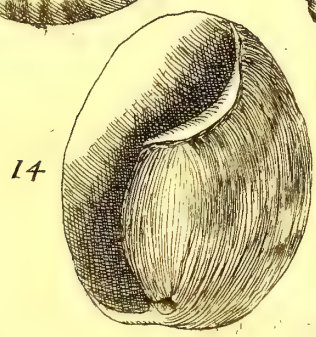
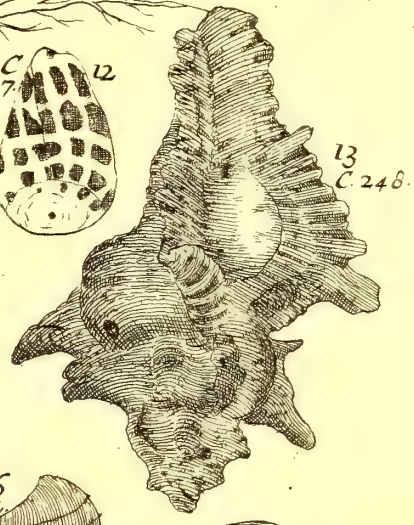
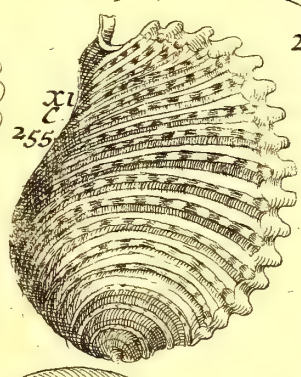
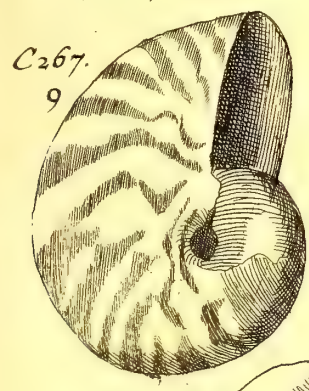
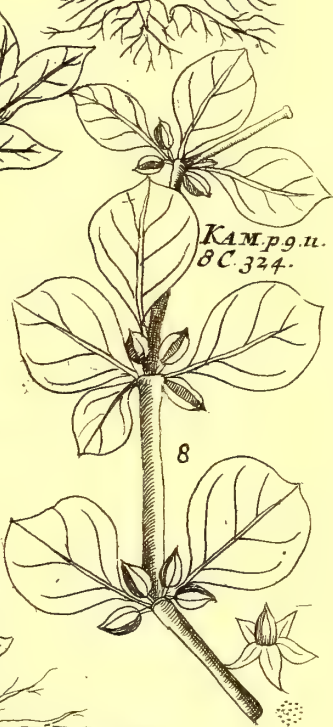
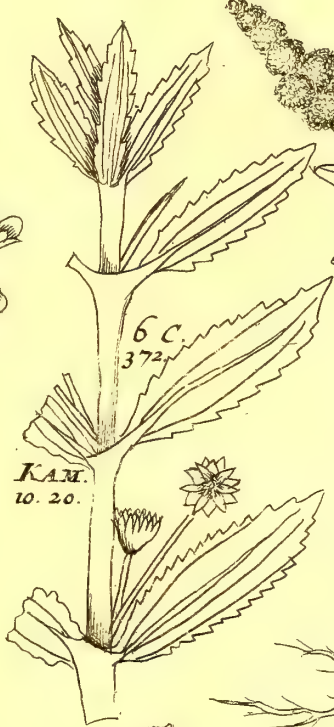
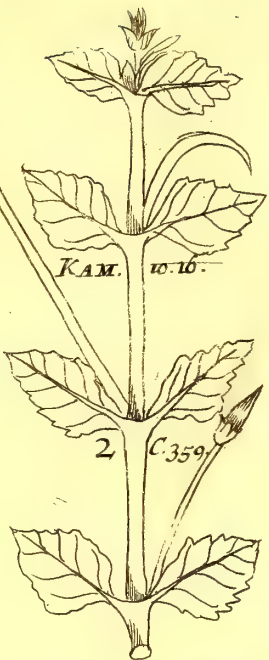
10

15
C. 239.

16
C. 241.

17
C. 240.

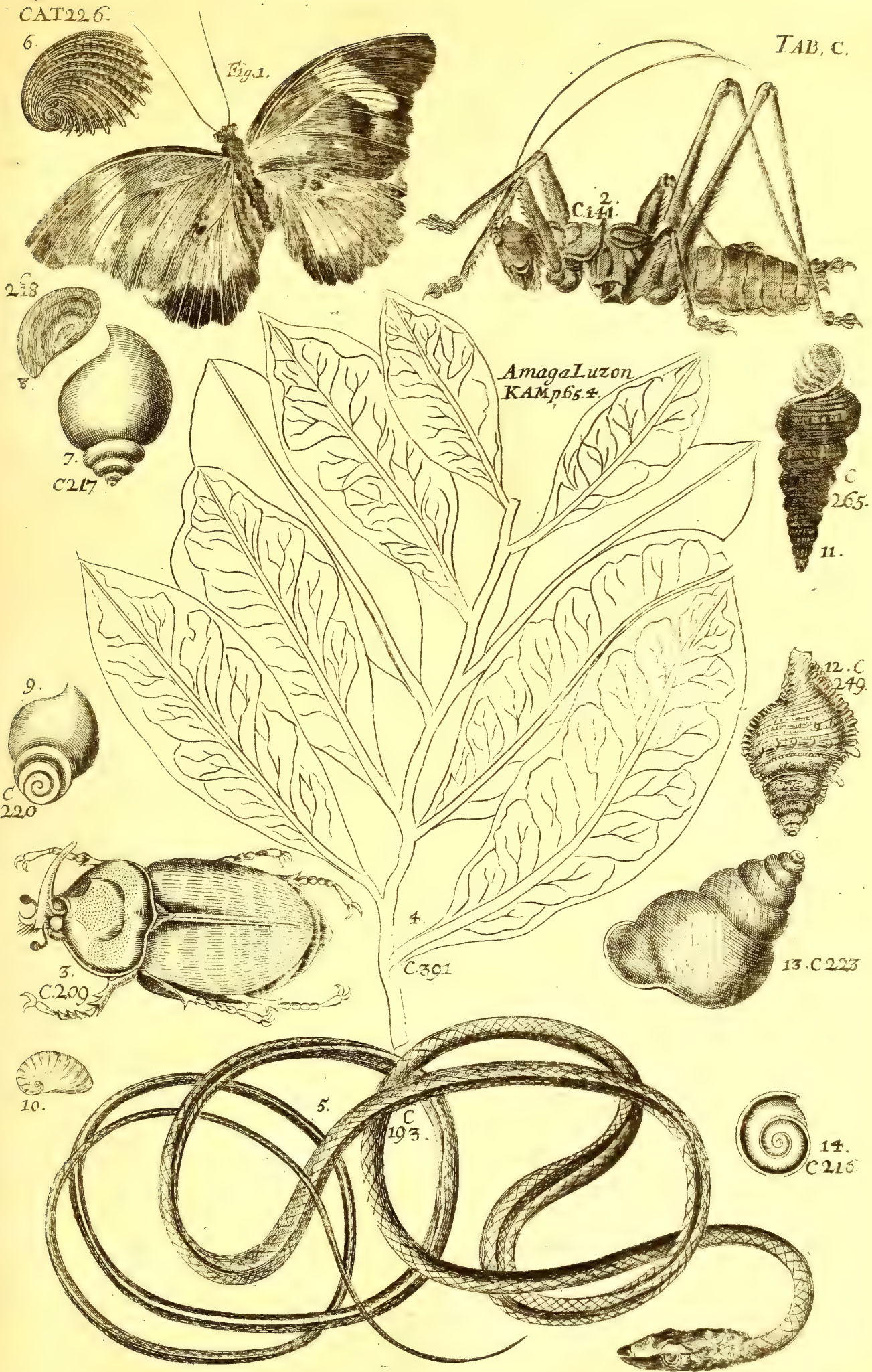
Sutton Nicholls sculp.

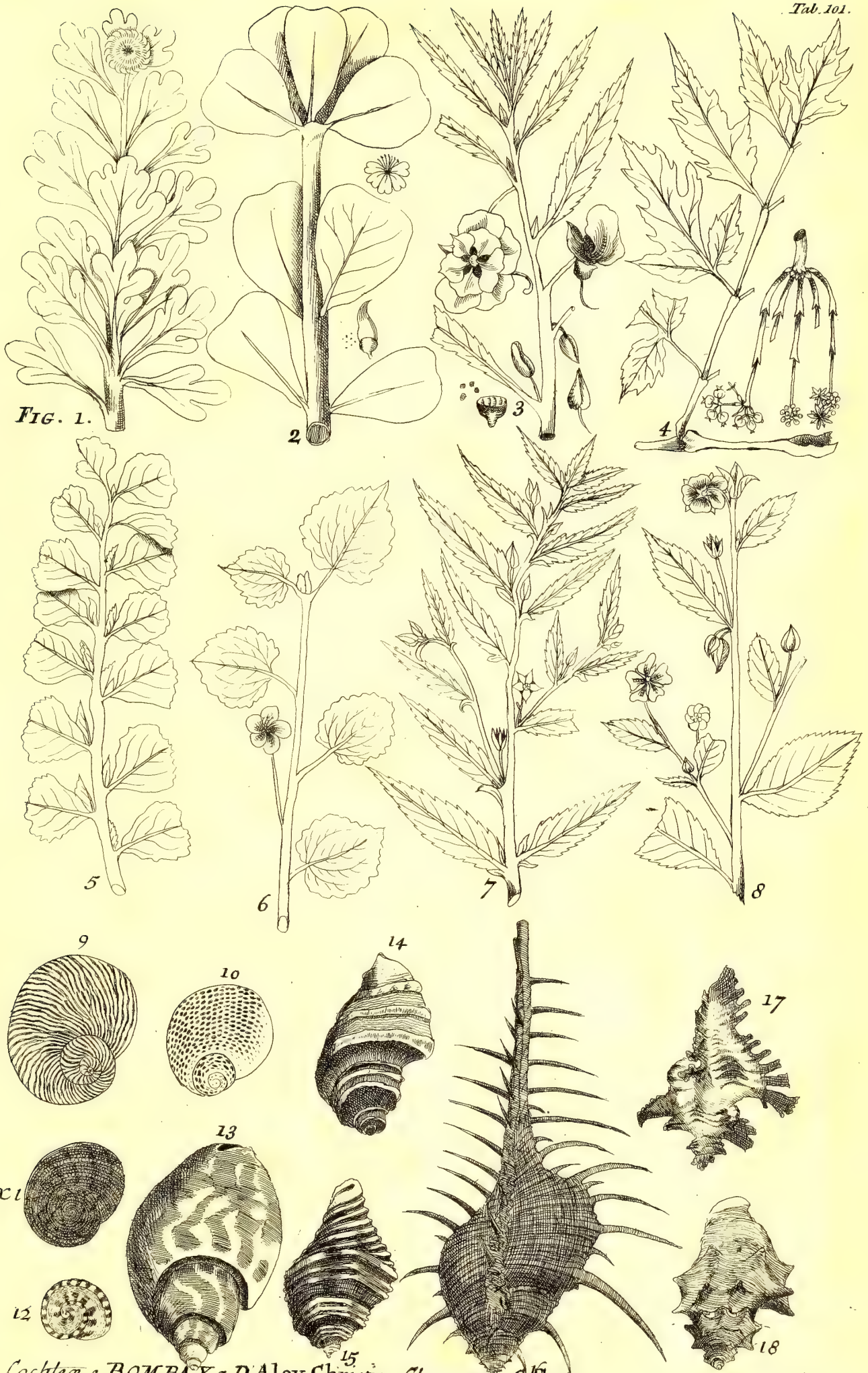


Sutton Nicholls sculp

CAT226.

TAB, C.





Cochleæ e BOMBAY a D. Alex. Christie Chyrurgo Collectæ.

Sutton Nicholls sculp.



FIG 1.



BOMBAY Shells Collected by M^r Alex. Christie Surgeon²⁰

Sutton Nicholls sculp

Visco-Aloes Luzonenses Kameli Aloes & Orchis-like Plants,
growing on Trees, in Luzone &c.

Tab. 103.



Fig 1.

Tab. 104.



Sutton Nicholls sculp

FIG. 1.

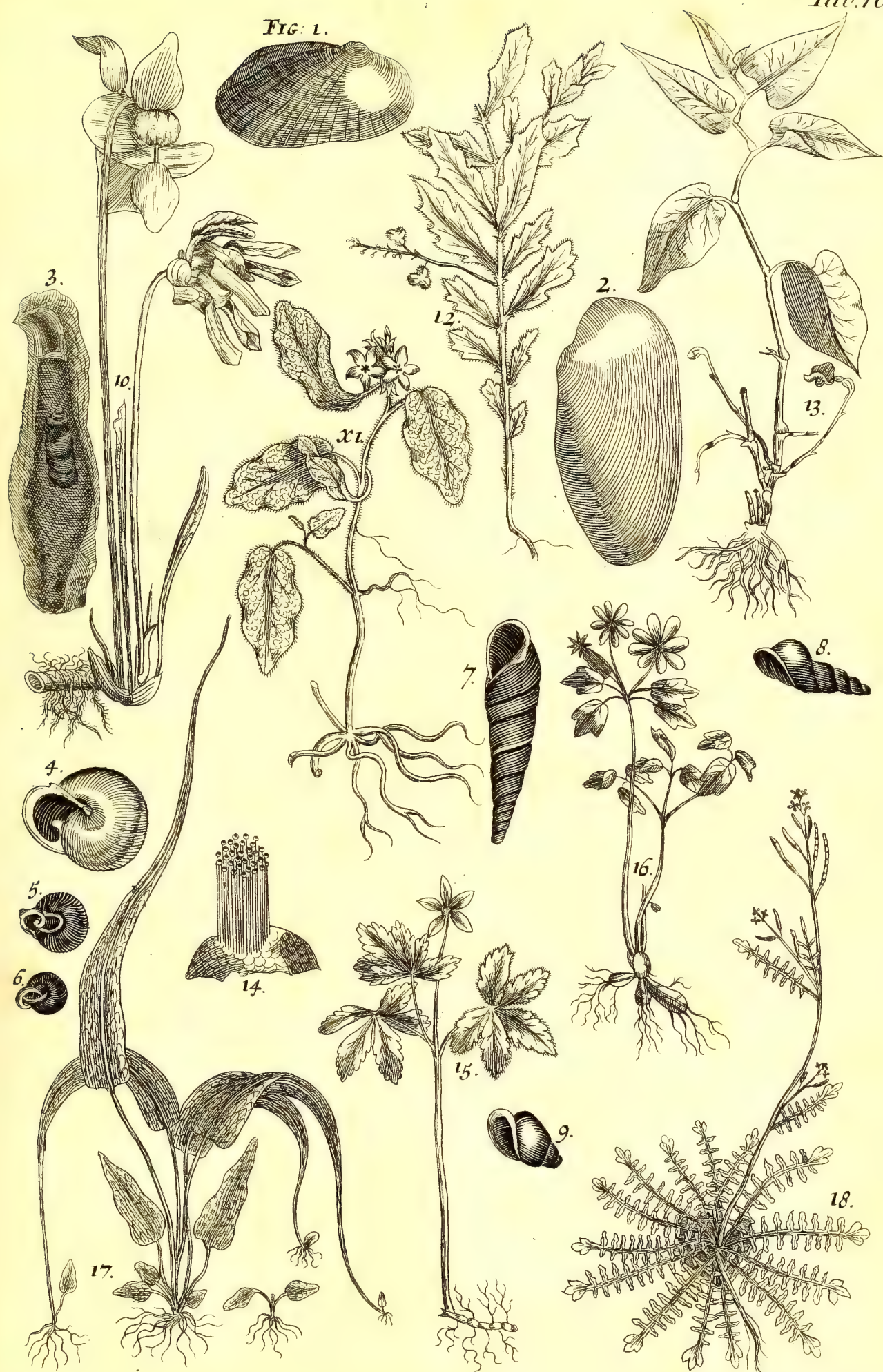
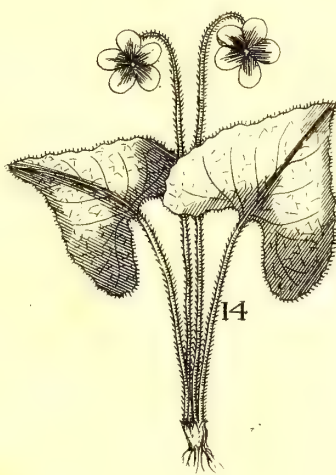
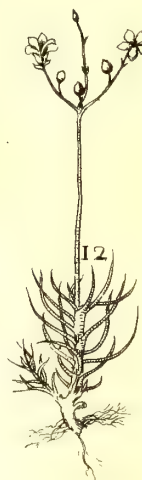
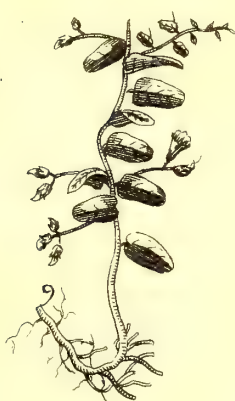




FIG. 1.





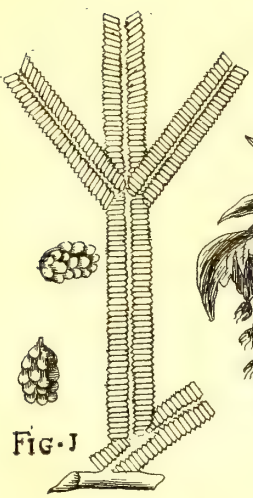


FIG. J



2



3



4



5



6



7



8



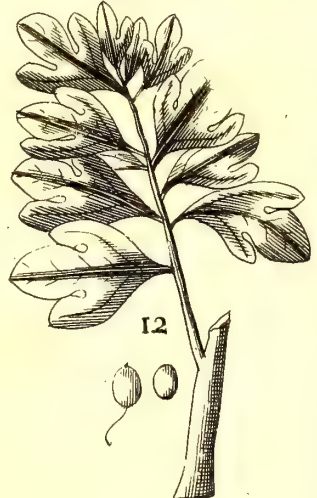
9



10



XI



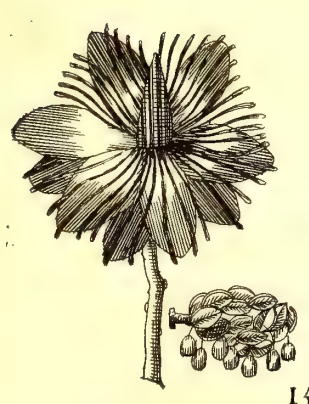
12



13



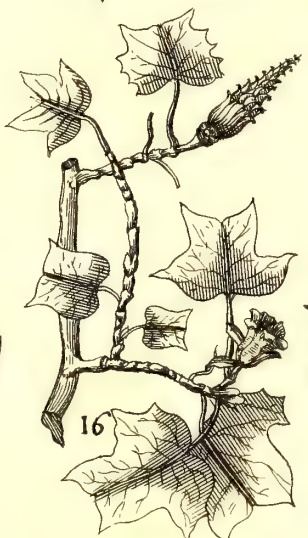
14



15



16



17



R. 666.07
Park 950.6
Corn 75.



FIG. 1

Plantæ Canadenses.
Canada Plants.

TAB. 110



C. 34
R. 666.8.
P. 697.7. 2



3



R. 666.10.
P. 698.10
C. 41.

4



R. 1641.5.
C. 150.

5



R. 670.2
P. 390.3
C. 167

6



C. 60.
R. 707.8
P. 1367.1.

7



R. 13.15
P. 18.3
C. 15.

8



C. 58.
R. 974.2
P. 189.5

9



C. 45.
R. 928.4.
P. 1090.10.

10



R. 937.8
P. 1062.6
C. 201

11



R. 1232.13.
P. 217.3
C. 205.

12



R. 1699.0
P. 679.5
C. 97.

13



R. 1699.12
P. 688.6
C. 100.

14



P. 3856 &
1679.
R. 1768.1
C. 103.

15



R. 955.1
C. 131
P. 716.3

16

Plantæ Canadenses
Canada Plants

TAB. III.

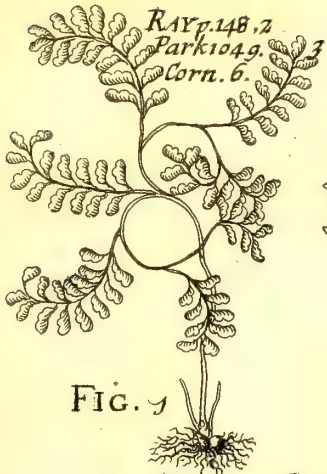
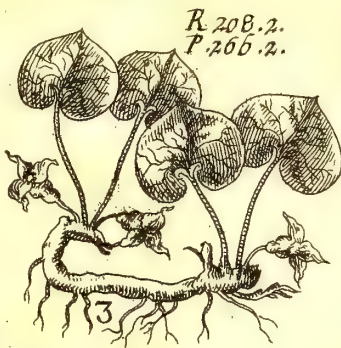


FIG. 1



2



3



4



5



6



7



8



9



10



11



12



13



14



15



16

AMERICANÆ Scandentes AMERICAN Climbers

112

1 Milky Dogbane

2 White Bignon 3 Hop Bryony Ray. 1
Dogbane RAY 3. Vol 3. p 347. 7.
p. 545. 39.

4 Trefoil Cowcumber
R 3. p 333. 2.



FIG. 1
Climbs Trees & Hedges.



5 Bitter Fringe
Gourd R 3 p 332.

Cloning Dalechamp
R 3. p 107. pl vlt.

7 Yellow tufted Bind
wood

8 Scarlet Hop Bindweed
R 3. p 380. 76.



Woods &c.



Climbs Trees & Hedges



9 America Soldanella
RAY 726. 14.

10 Long Soldanella
R 3. p 380. 80.

11. Negro Couhage
RAY 888. 26.

12. Wilted Frejoles.
R 3 p. 440. 62.



Sandy Sea Shores



Sea Shores.



Climbs Trees.



12

AMERICANÆ Passifloræ &c

AMERICAN Maracocs &c.

II 3

1 Furrowed Maracoc. 2 Olive Maracoc.
Ray Vol 3. p 341. 17. Ray 3 p 339. 6.
River Sides Com.

3 Trefoil Maracoc.
R 3 p 339. 6.

4 Stinking Maracoc
R 650. 5.
Fl. long



FIG. 1

Fl. Blush
Fr. Scarlet.



Hedges Com.



Fl. Pale.
Fr. Blue.



4 Hedges Com.

5 Moon Maracoc.
R 3 p 342. 19.

6 Sassafras Maracoc.
R 3 p 342.

7 Egg Maracoc

8 Cluster Maracoc
R 3 p 343. 22.



Fl. Long
Scarlet



Fl. Pale
Fr. Blue



Fl. Sweet
Fr. Blue

9 Cinquefoil Caruru
R 1347. Cap 13.

10 Hop Maple

11 Velvet leaf
R 1331. c. 2 & Vol 3 p 343. 23.

12 Quarter Bignon
R 3 p 343. 23.



Barb

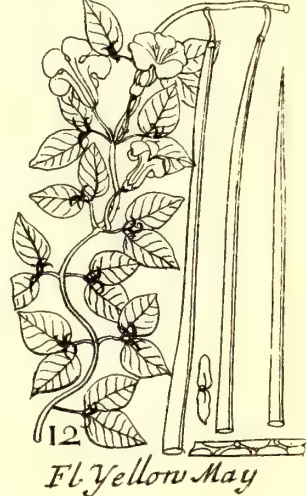
Fr. Red



Fl. Long



in Thicket Common



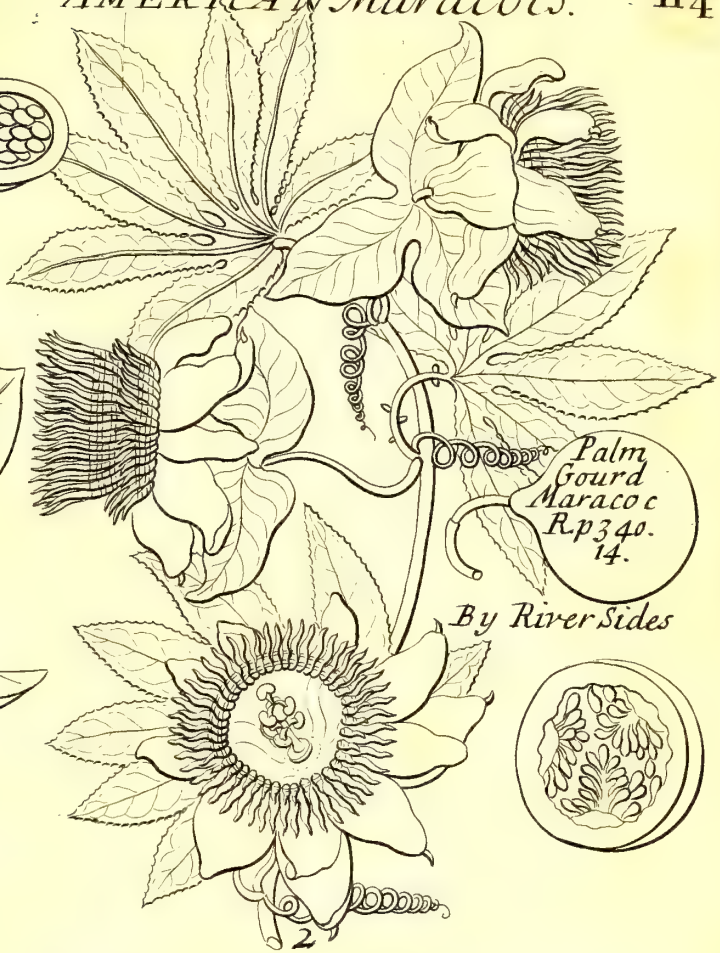
Fl. Yellow May

Citron Maracot
R649. 2.

Fl. Sweet
Fr. Yellowish



In Gardens



Palm Gourd Maracot
R.p340. 14.

By River Sides



Apple Maracot
R3.p340.9.



Palm Curld Maracot
R3p341 16.

Saururi Americani American Efts tails

Yam Efts tail
Ray 3. 642. 2
pl. x.

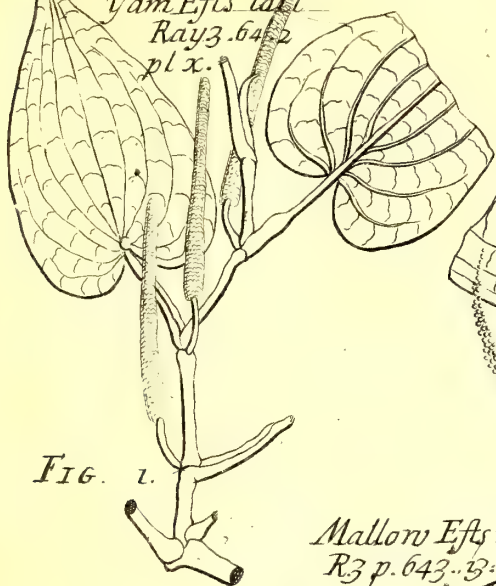


FIG. 1.

Plantain Efts tail
Ray 3. 643. 17.



2

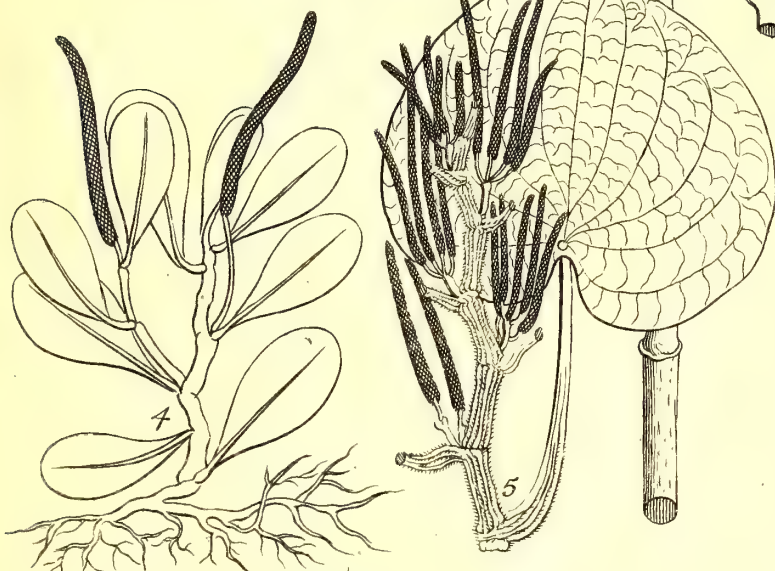
115.

Spotted Navell Efts tail
R 3. p. 642. 8.



3

Mallow Efts tail
R 3 p. 643. 3.



4

4 Thick Blunt Efts tail
R 643. 14. on rottē Trees



6

6 Thick, pointed Efts-tail
R. 643. 15. on rotten Trees.



7

Knotty Efts tail R 3 p. 644. 22



8

Navell-leaved Efts tail
R 3. p 644 16 in Wet Woods



9

Currē Efts tail. R 3.
p. 642. 12

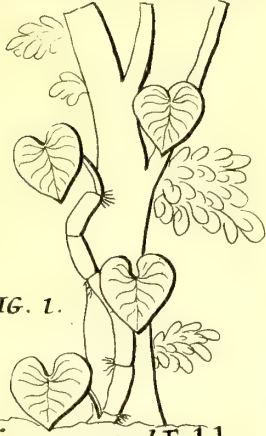


FIG. 1.

1. Worm-rooted Edder.
RAY 3. p. 582. 6.
Grows on Trees.



3. Trefoil-eaved
Dragons R. 3. p.
579. 33.

3

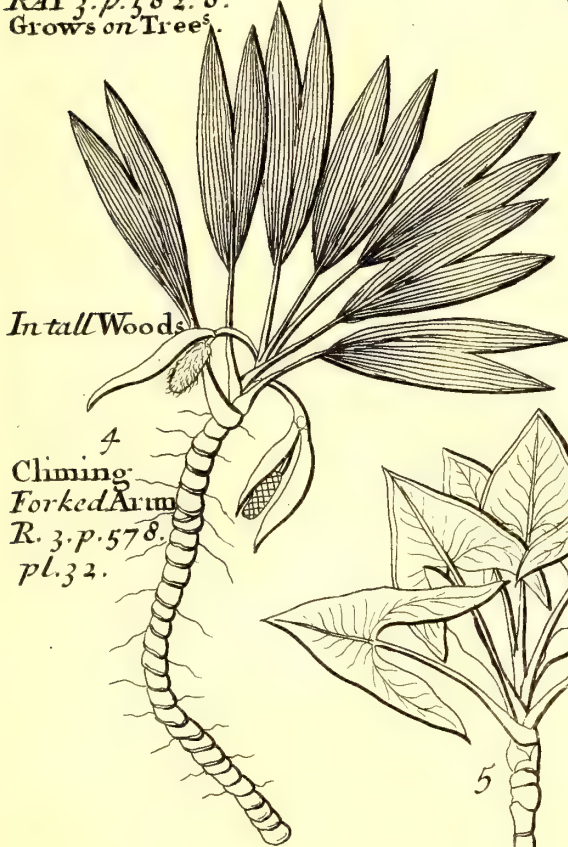
LAM.

id. Tab. 2. 5.
By Rivers.



2

2. Broad Worm-rooted Edder, or Fire-rope.
RAY 3. p. 581. 3. Grows on Trees.



In tall Woods

4
Climbing
Forked Arum
R. 3. p. 578.
pl. 32.



5

5. Tree Arum. R. 3. p. 577. 27. In Bogs, & Swamps.



7. Willow Edder.
Grows on Trees.

7



8. Climbing jagged
Dragons. R. 3. p. 582. 4.

In great Woods

LAM.



6

Dumb Cane.
R. 3. p. 577. 29.
In moist ground
very Common.
id. Tab. 2. f. 8.

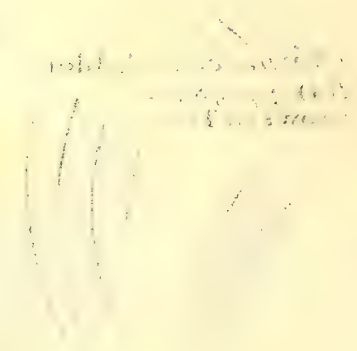
LAM.



9

Climbing long Edder. id. Tab. 2. 3.

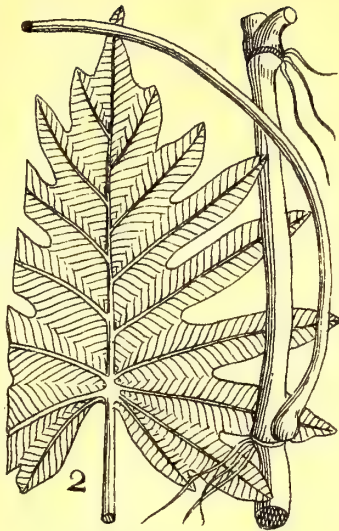
Handwritten text, possibly a title or list, running vertically along the left margin.



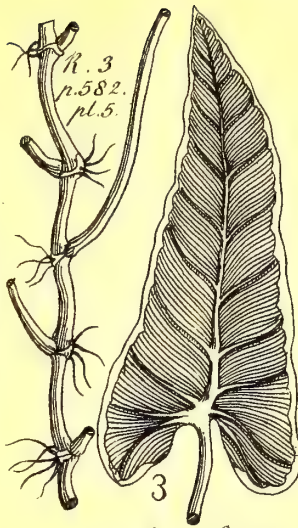
Small handwritten text or label located below the sketch on the right side.



FIG. 1
1. China or Red Arum
Ray. Vol. 3. p. 585. 18.



2. Climbing jagged
Dragon Tab. 2. f. 8



3 Long Edder

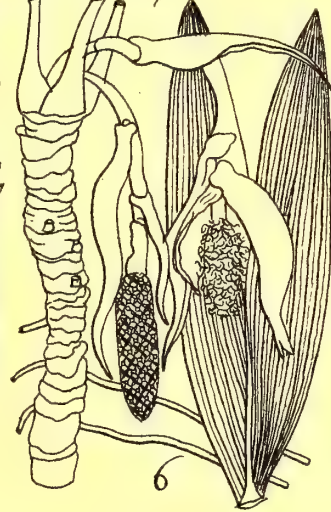


4 Holly Edder

5. Trefoil Eared
Dragon Tab. 1. f. 3



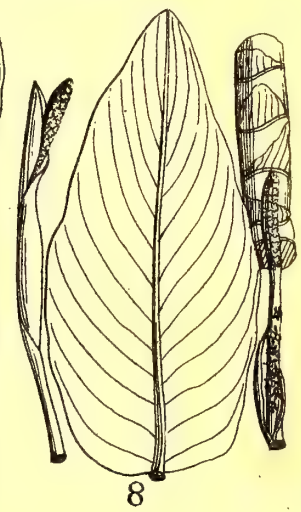
6. Climbing forked
Arum Tab. 1. f. 4



7 Free Arum
Tab. 1. f. 5.



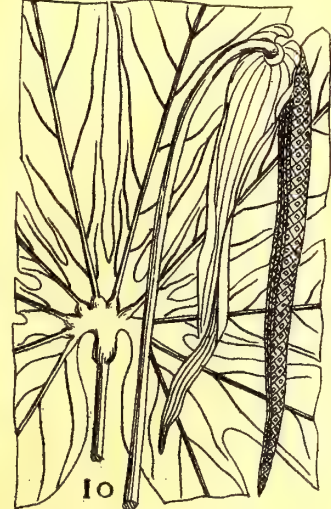
8 Dumb Cane
Tab. 1. f. 6.



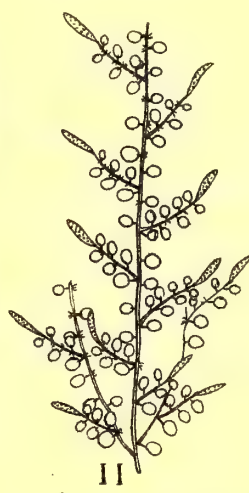
9 Perroquet Edder
Ray 3. p. 578. 30.



10 Free Dragon
R. 3. p. 585. 19



11 Round Eft-tail
R. 3. p. 641. 7

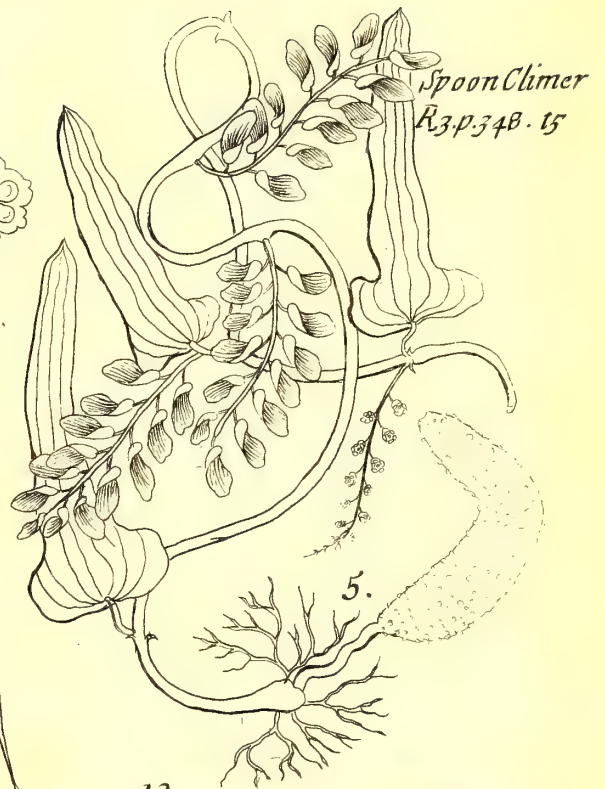


12 Spanish Edder
R. 3. p. 643. 18.

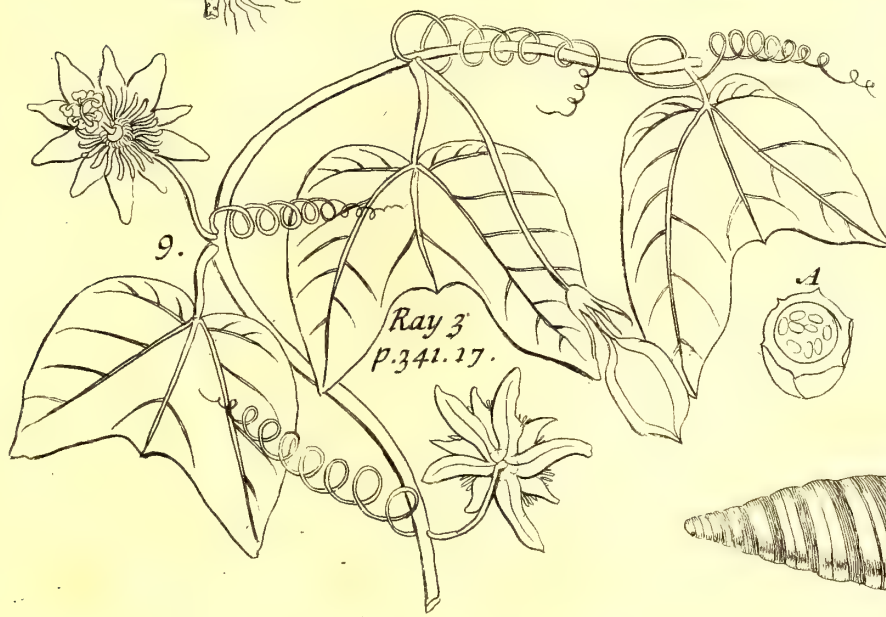
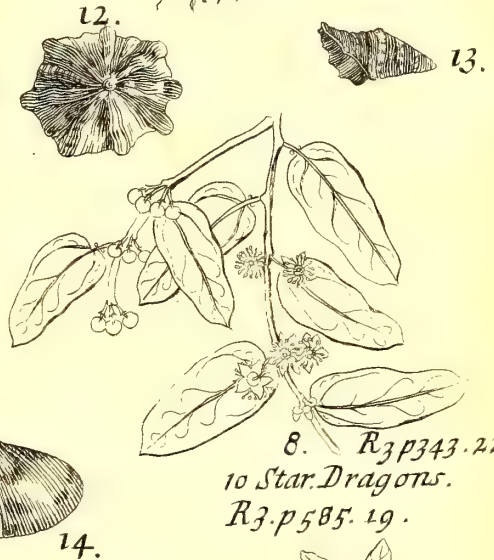


Grows on Rocks
& fallen Trees

Round
trefoil
Efttail
R3 p.
641. 6.
Creeps
about
Trees
FIG. 1.



6. Spotted Creeping
Eft. tail R3 p. 642.
9. in Woods



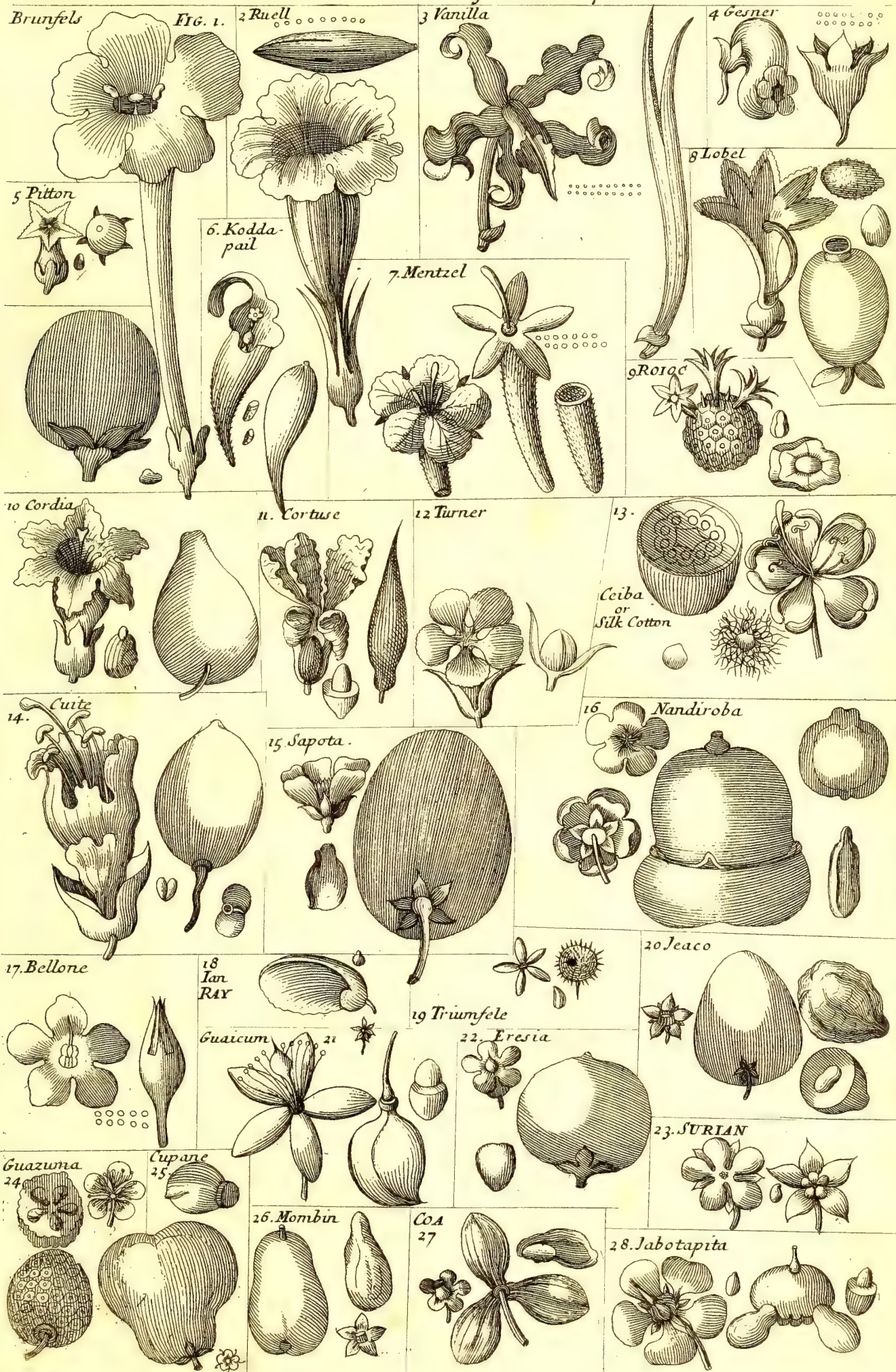
AMERICAN PLANTS with one, 3, 4, or 5 Leaved Pipe or Hollow FLOWERS. TAB. 119.



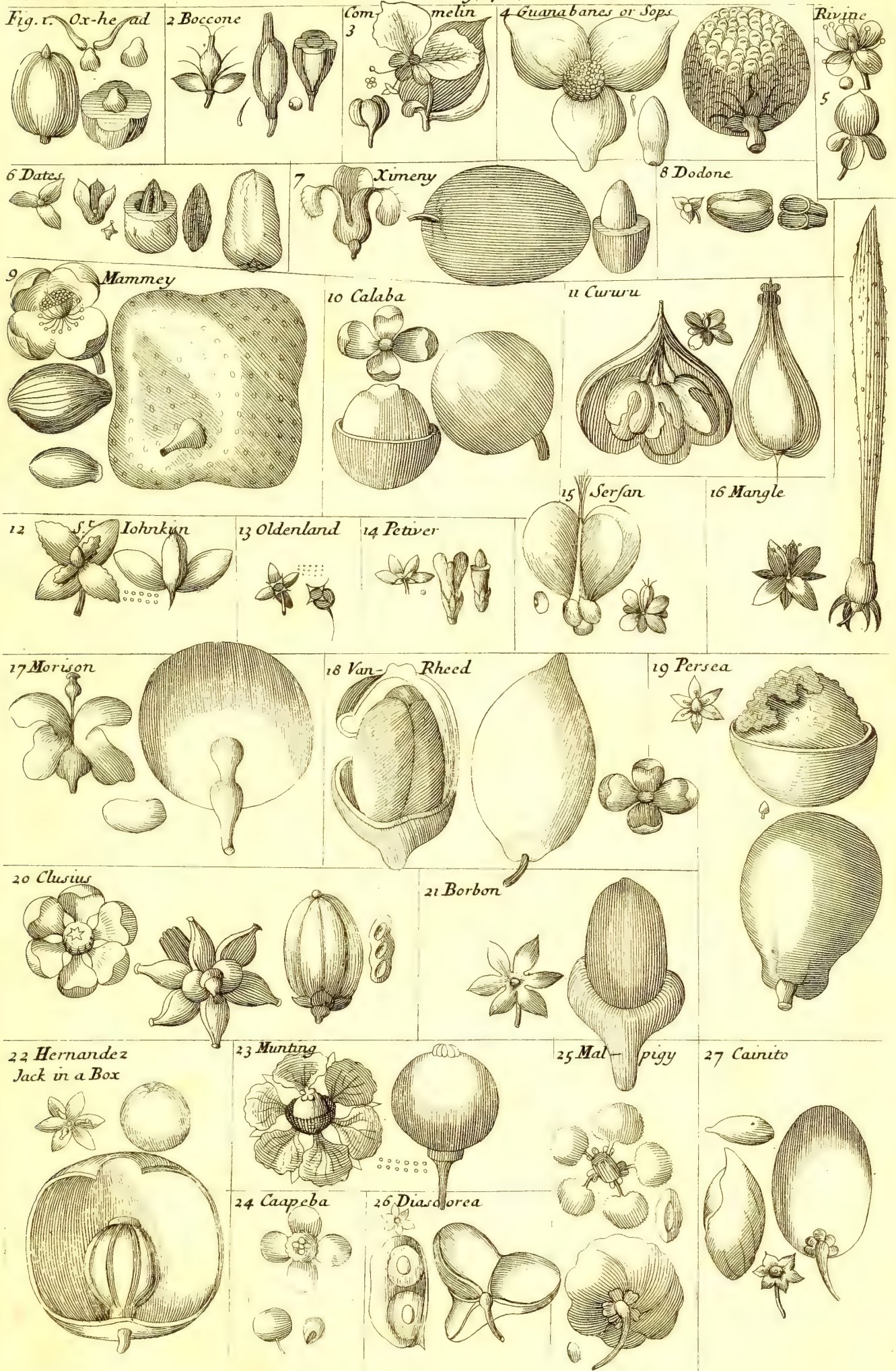
THE UNIVERSITY OF CHICAGO PRESS
CHICAGO, ILL. 60637

1964

AMERICAN PLANTS with 5 Leaved Pipe & Flat Flowers. TAB. 120.

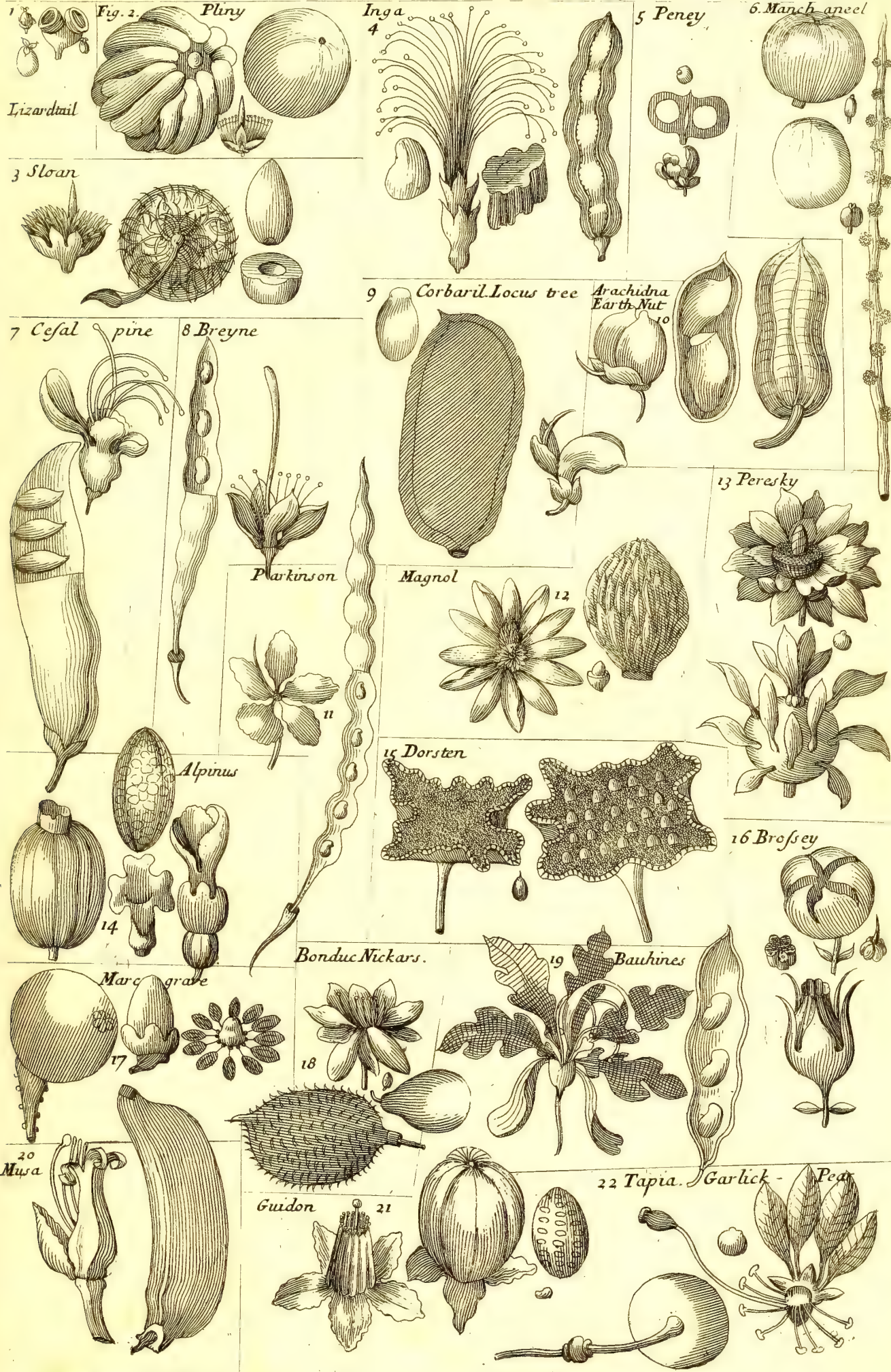


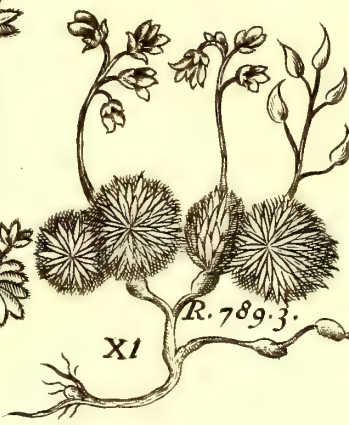
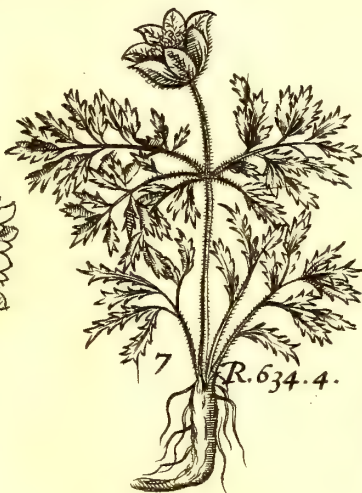
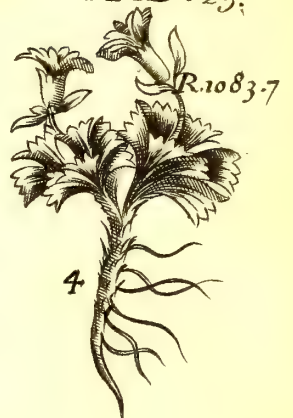
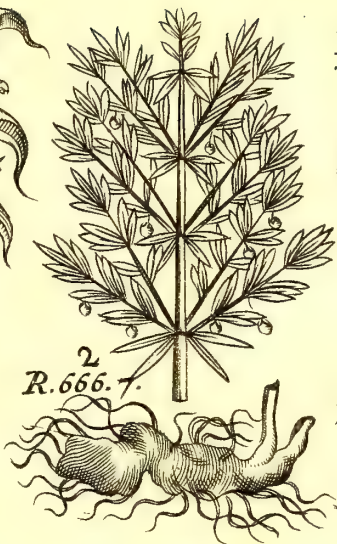
AMERICAN PLANTS with 2, 3, 4 or 6 Leaved FLOWERS. TAB. 121.

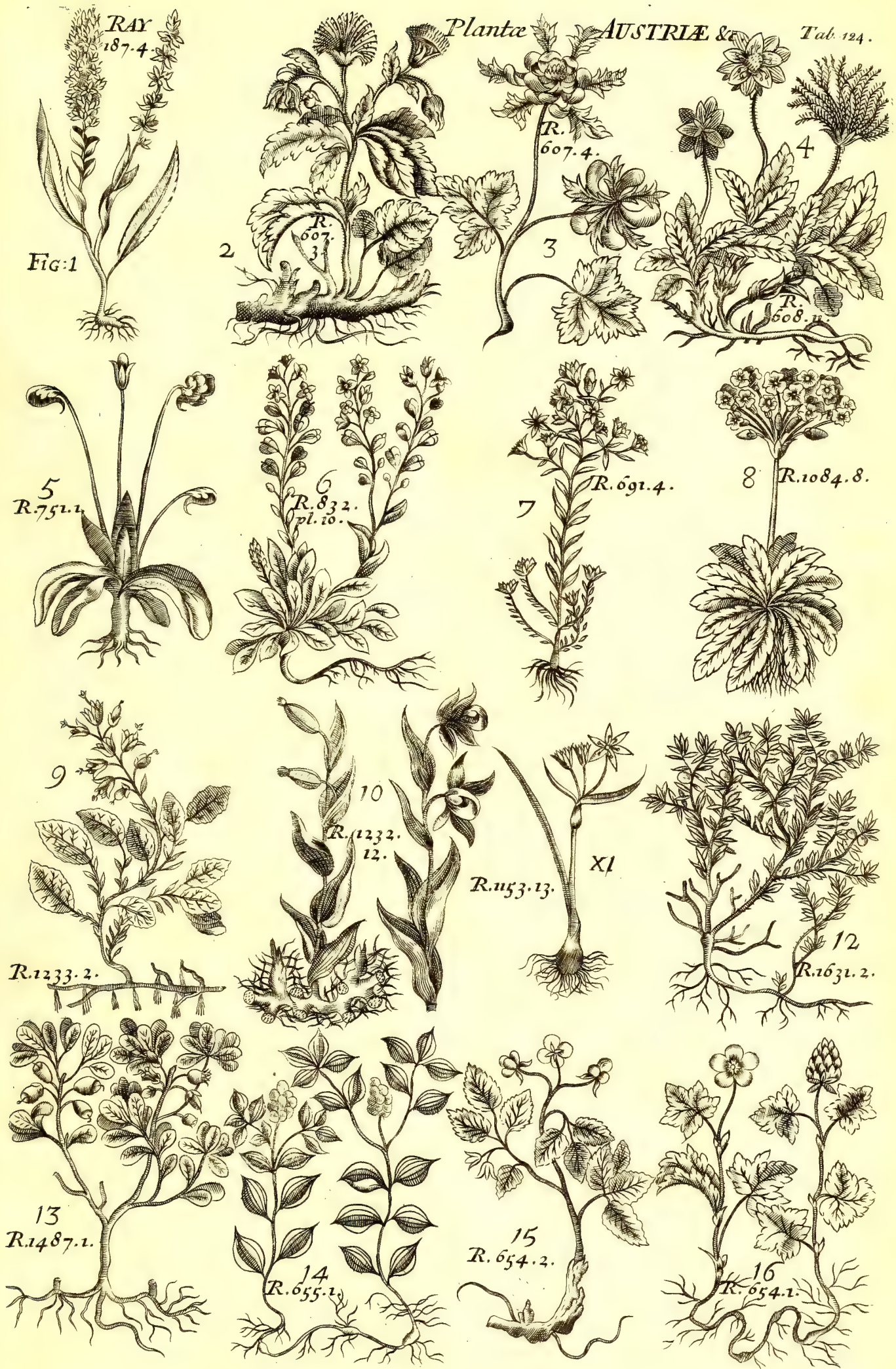


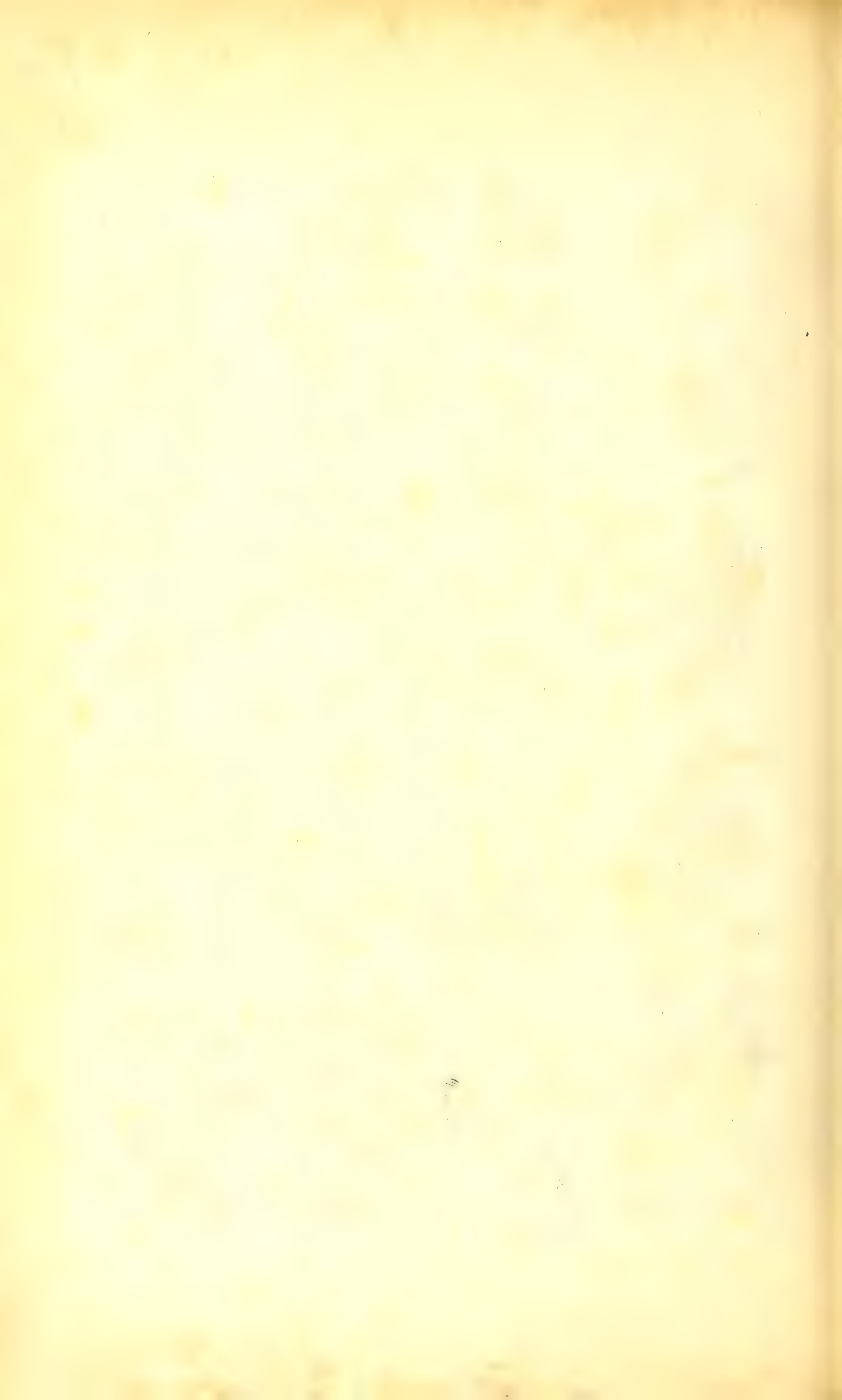


AMERICAN PLANTS with Thumy, Pea-bloom & Miscellany FLOWERS. TAB. 122.





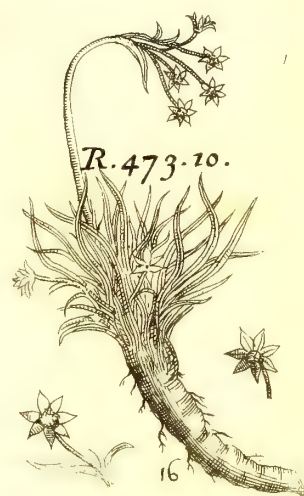
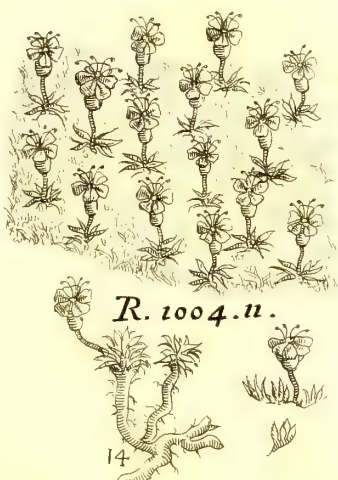
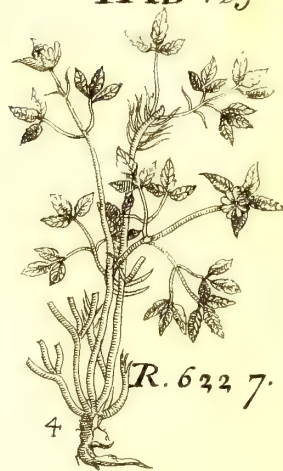




RAY Hist.
Plant
p. 323.
pl. 2.

Plantæ VERONÆ &c.

TAB 125



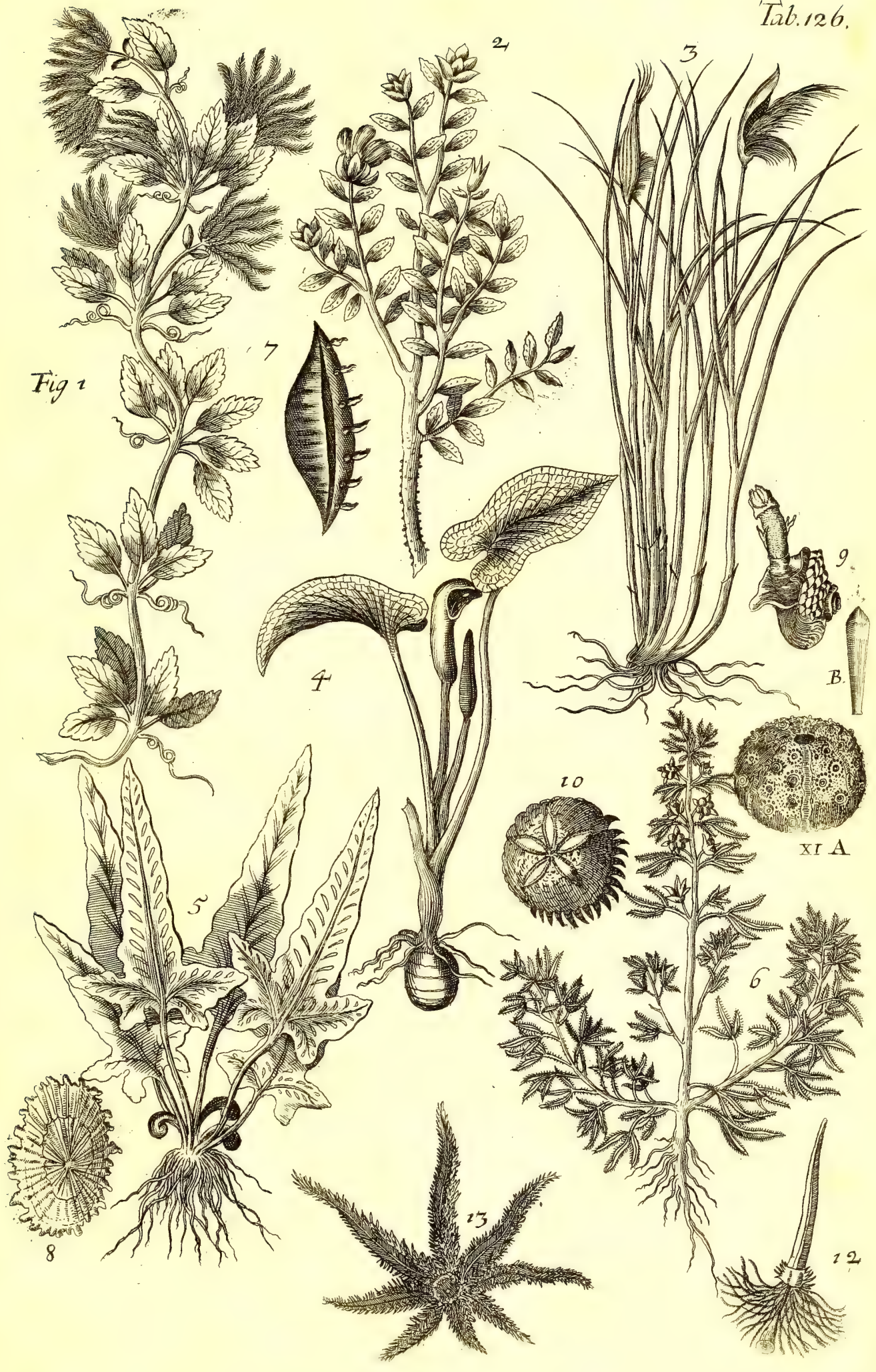
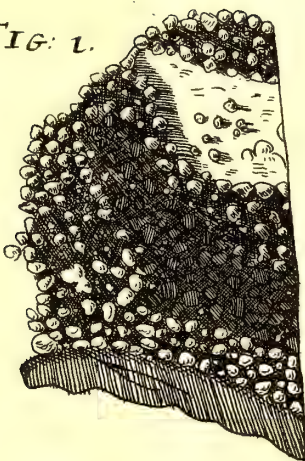
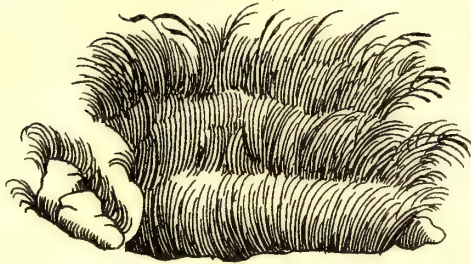


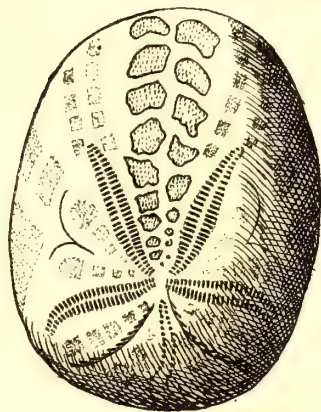
FIG. 1.



2.



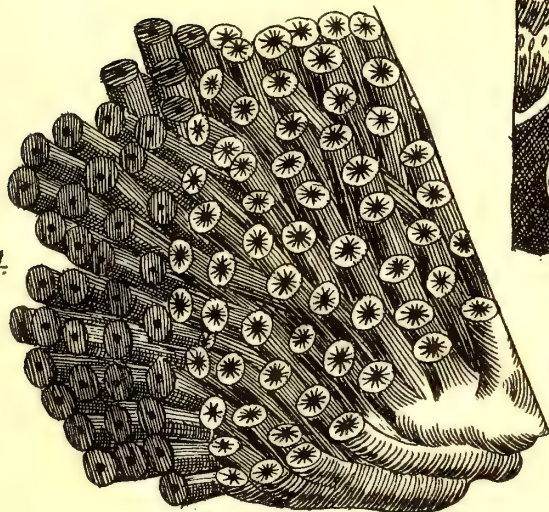
3.



5.



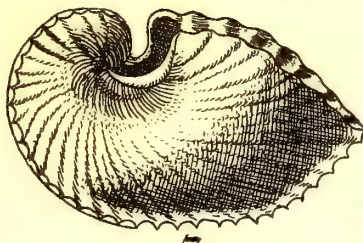
4.



6.



7.



9.



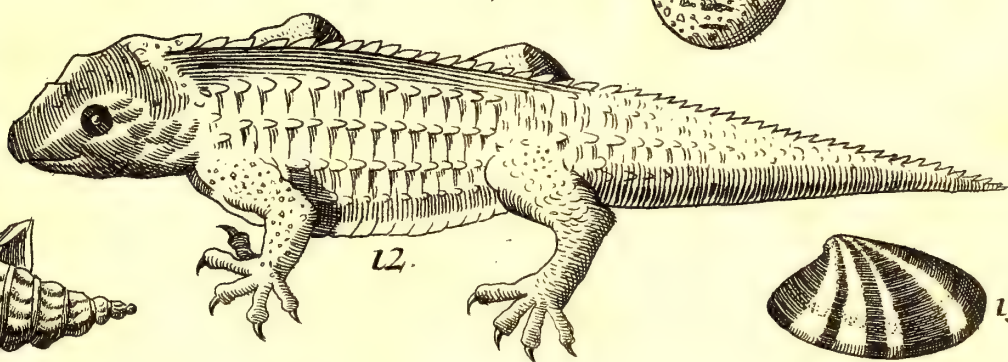
8.



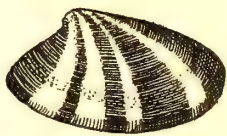
10.



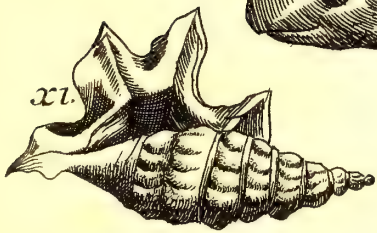
12.



13.



xv.





ORCHIDES ETRURIAE, Floribus Ligulis, &c A BRUNO TOZZI Ab. Val. Pictae TAB. 128

1. Orchis Etrur. angustifol.
ad Rad. maculata, lingua
ferruginea Br. To. 221.

2. Orchis mont-Italica
fl. ferrugineo, lingua
oblonga C. B. pr. 29. 5.

3. Orchis Etrur. lingua
dilute lata. Br. To. 221.

4. Orchis Etr. lingua
ferrug. pilosa. Br. Toz.



RAY
1221.
pl. 41.



5. Poly-Orchis Etrur.
lingua albidâ. B. T.

6. Poly-Orchis Etrur.
lingua rubro-luteâ.

7. Orchis Tragodes ligu-
lis purpureis.

8. Orchis flore Simiam
referens C. B. 82. 8.



RAY Hist Plant.
p. 1219. pl. 30.

9. Orchis Etr. marit.
fl. hians purpureo.

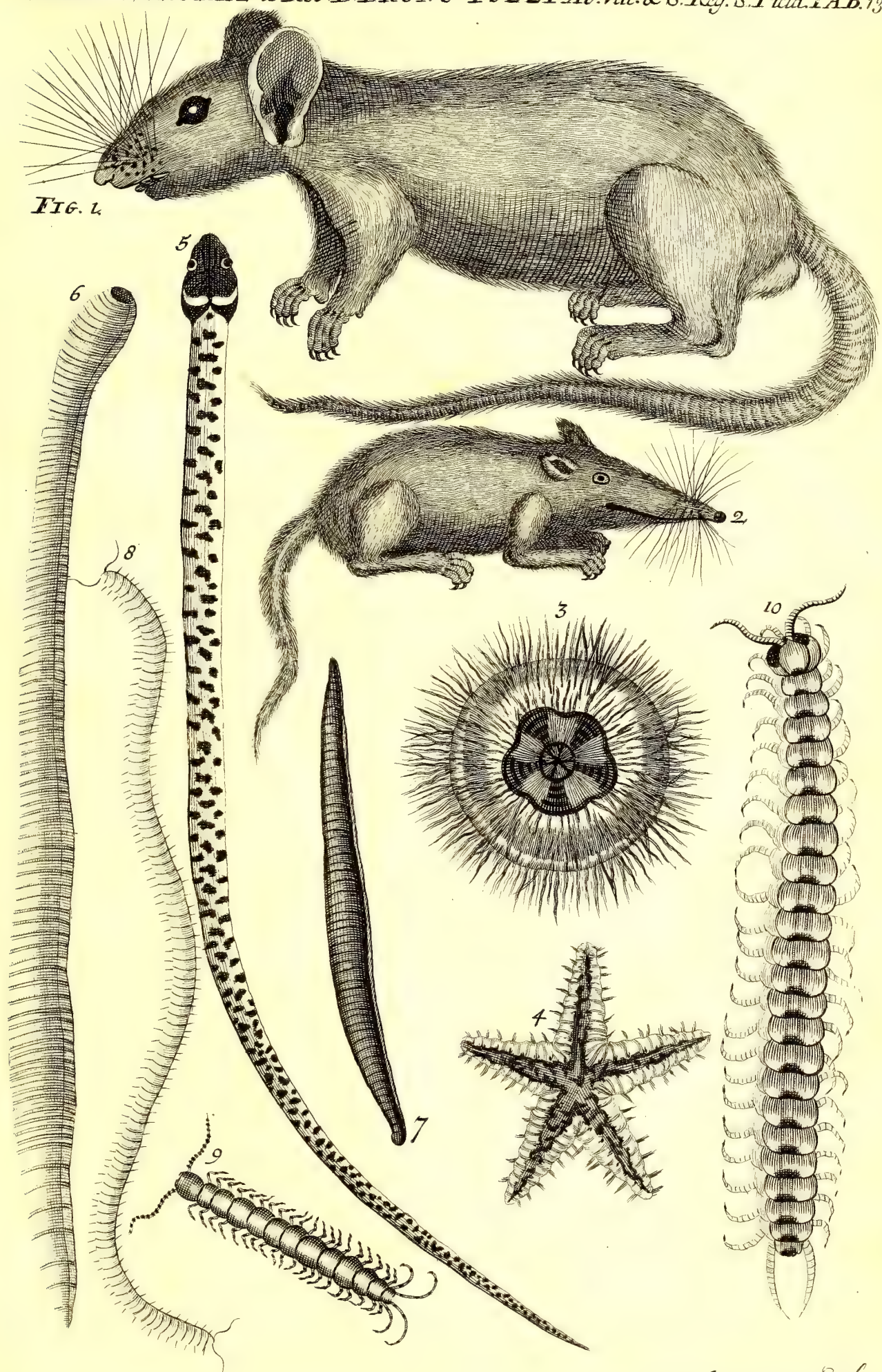
10. Eadem fl. dilute
rubente. B. T.

11. Eadem fl. candido.

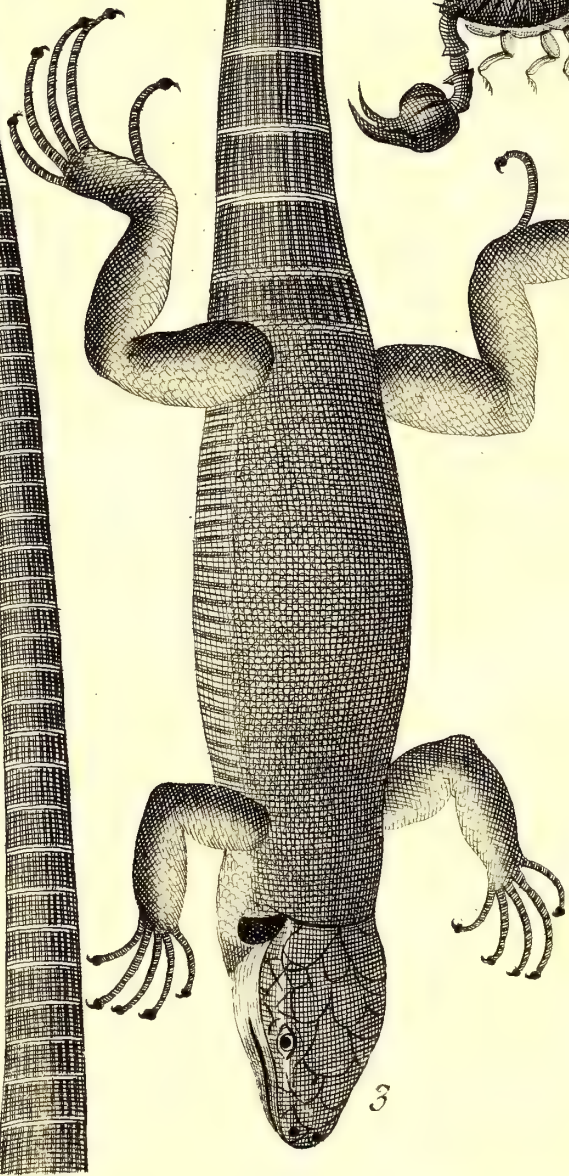
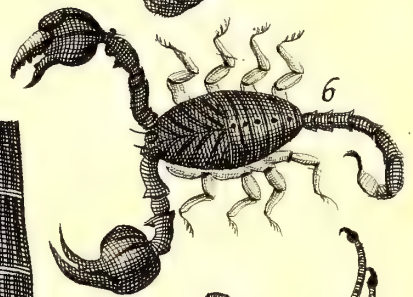
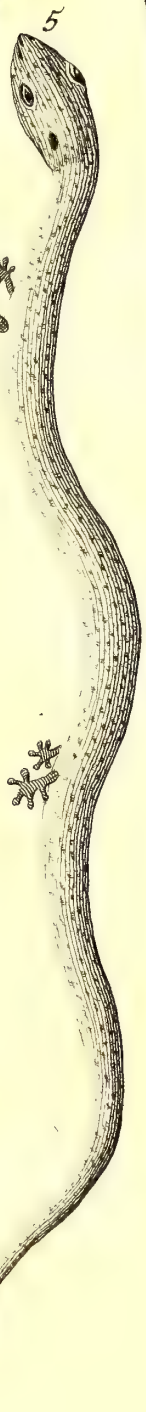
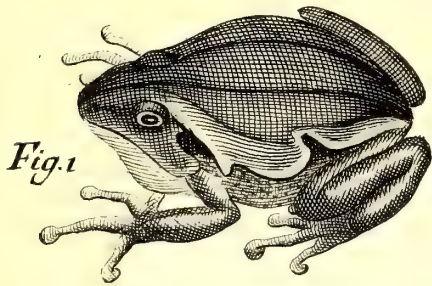
12. Orchis Etr. palustris,
spica longâ Roseâ. Br. Toz.

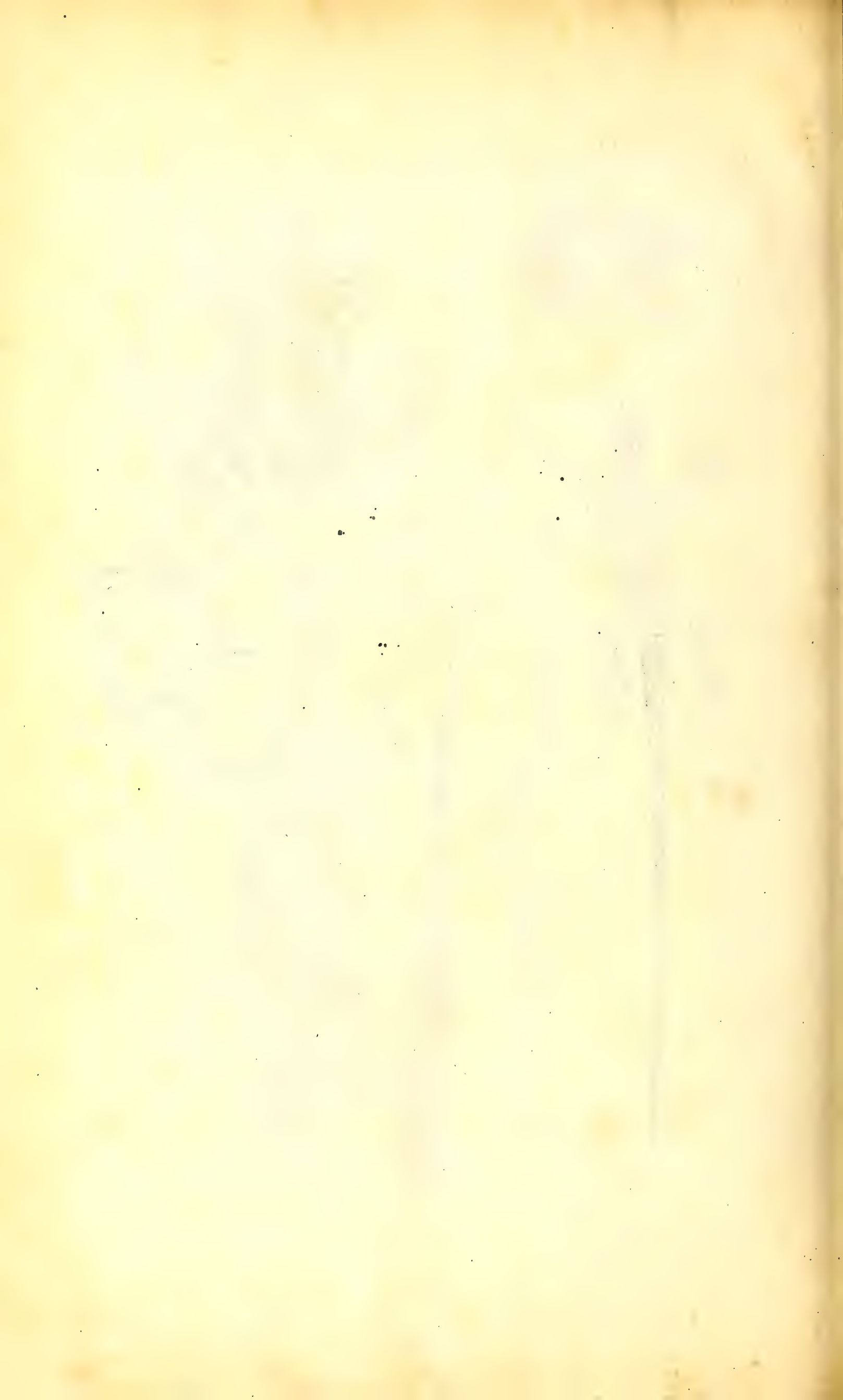


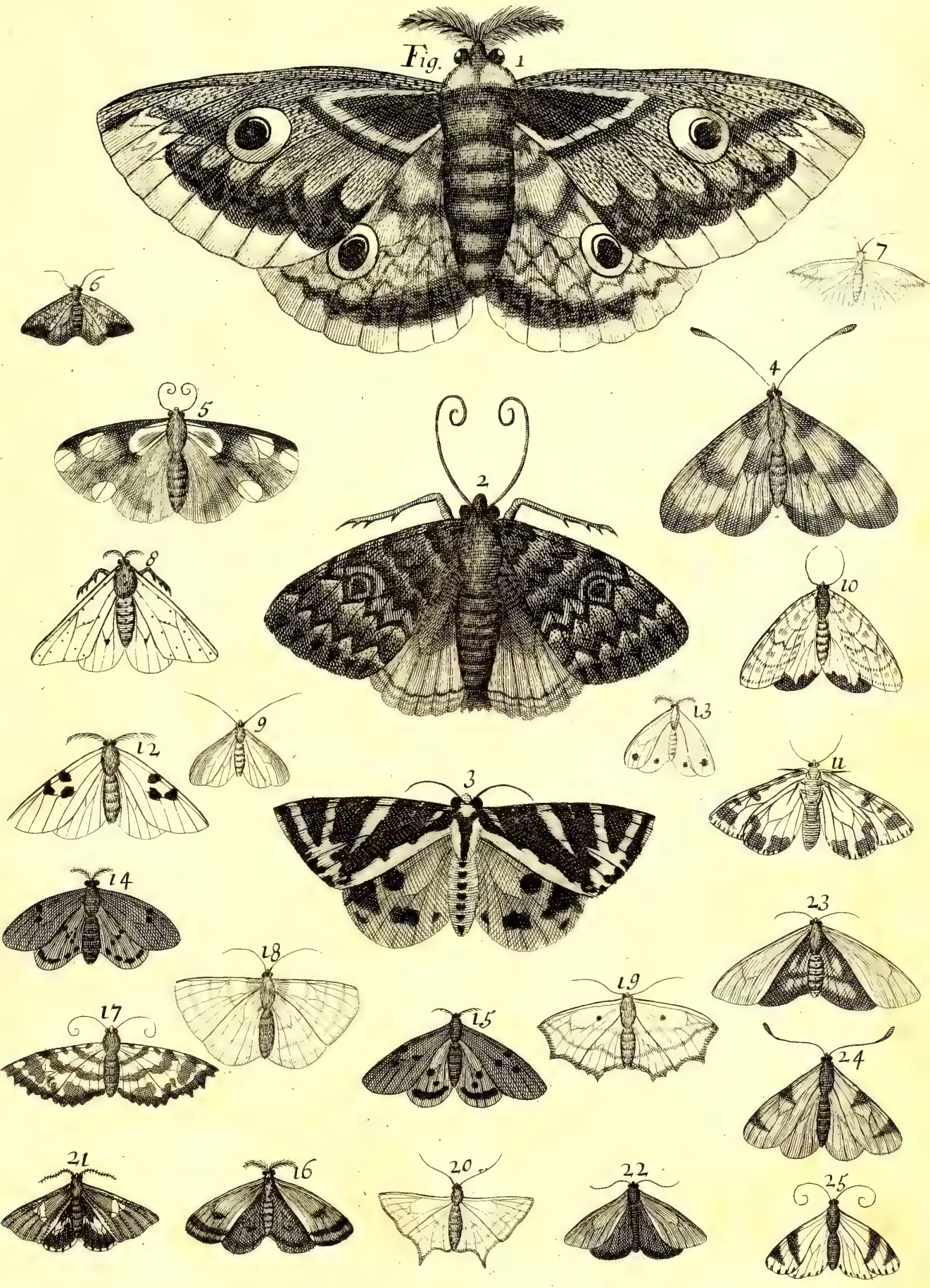




H. Terappon, Sculp.







H. Farallon, Sculp. London,

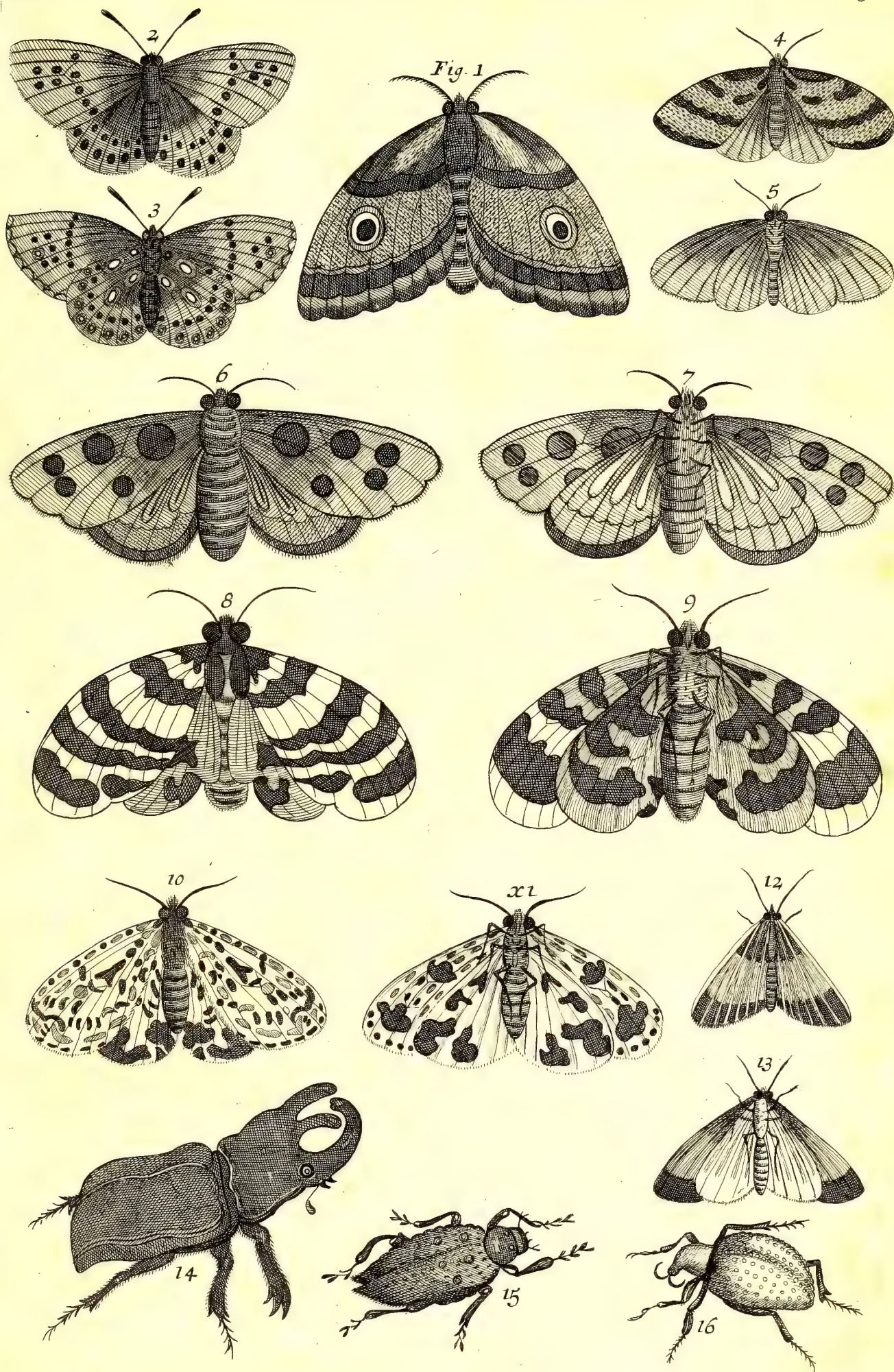


Papiliones ETRURIA, aD. BRUNO TOZZI Abbas Valumbros & S.R.S. Pictæ Tab. 133.

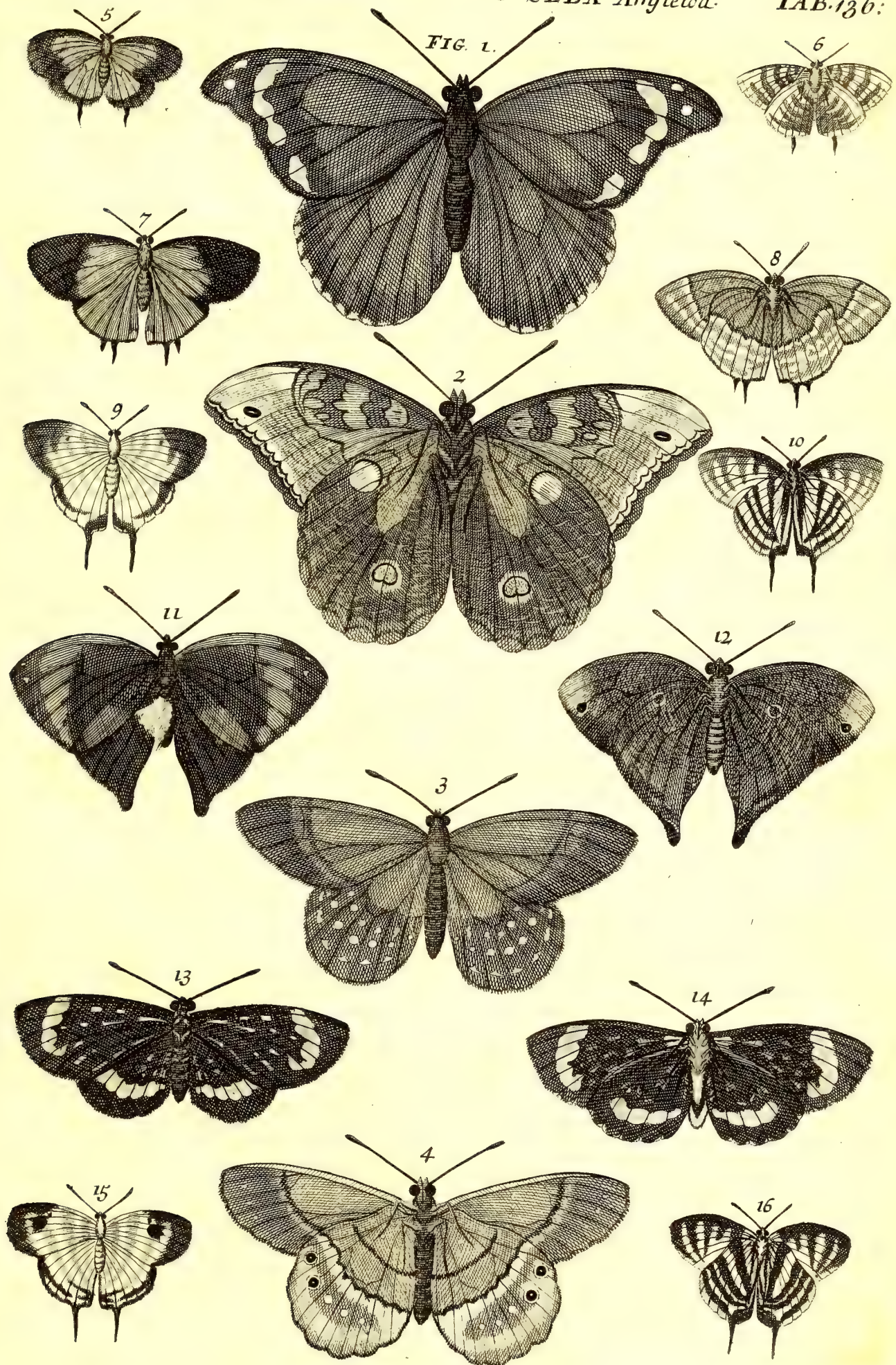


H. Trosser, Sculp. London.



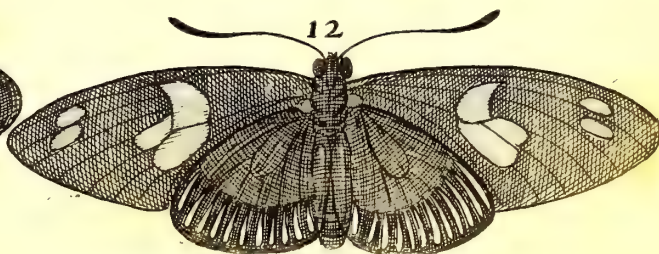
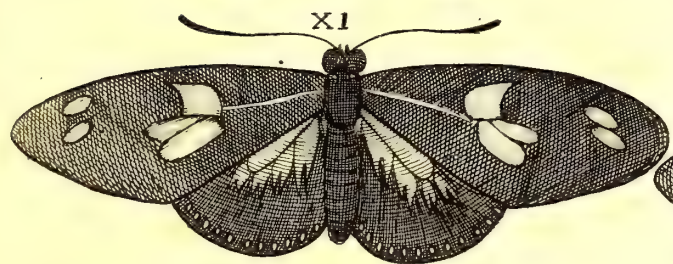
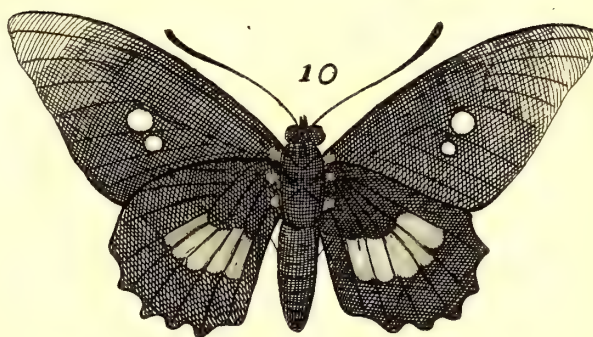
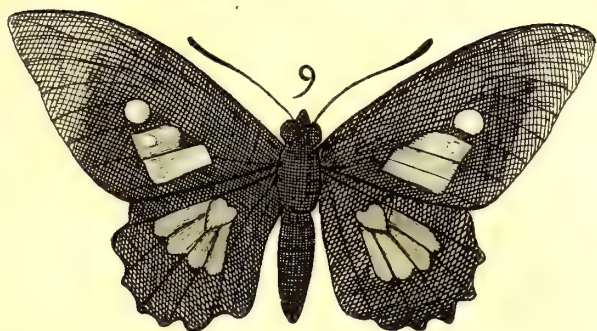
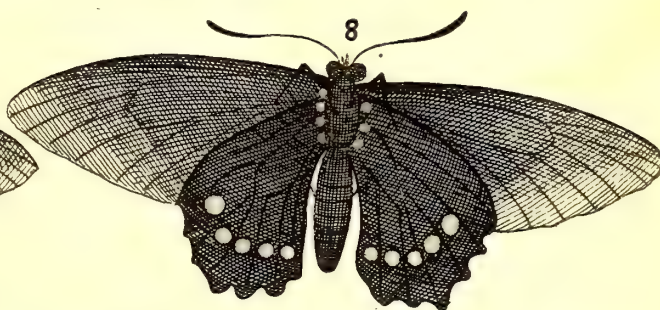
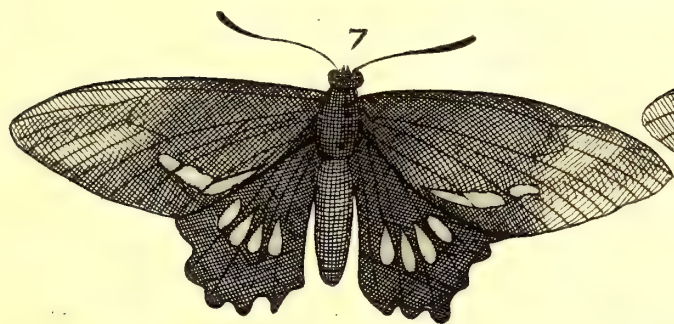
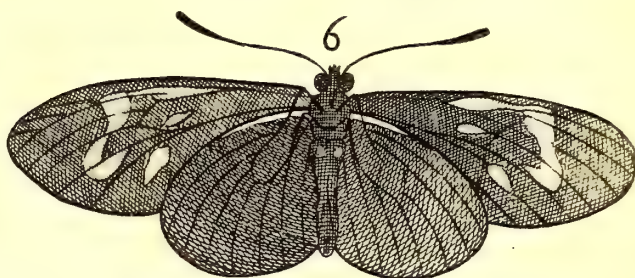
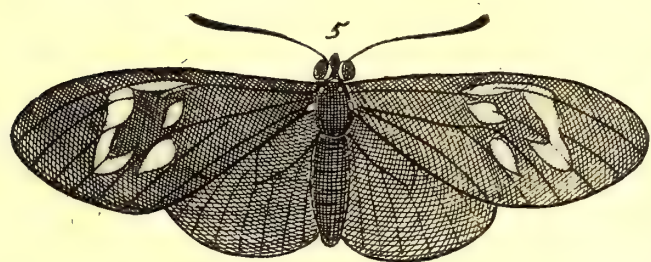
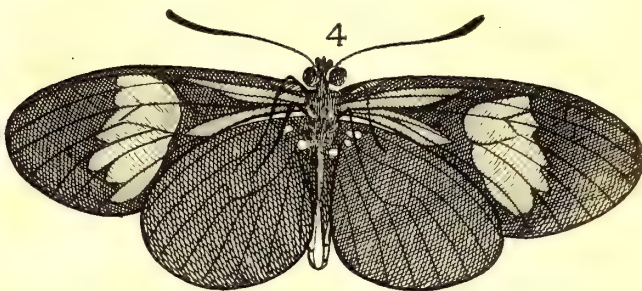
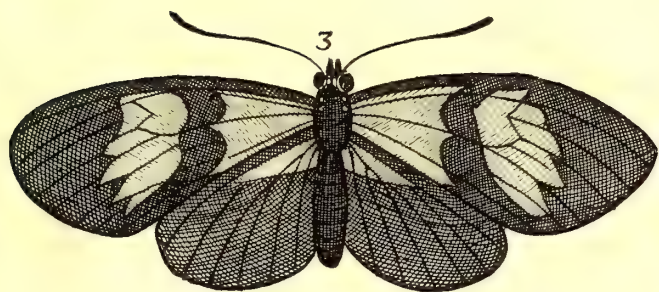
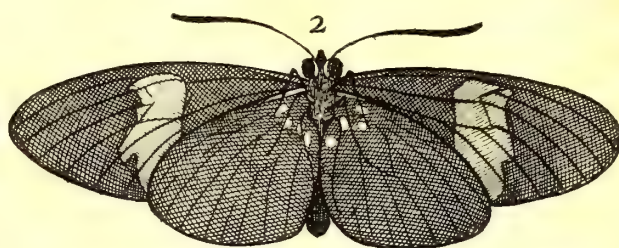






PAPILIONES AMERICANÆ, e Museo D. Albert. SEBA Amstelod. TAB. 137.

FIG. 1.



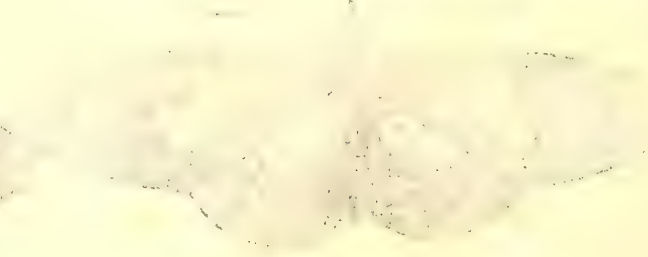
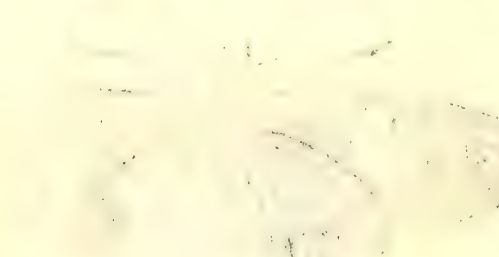
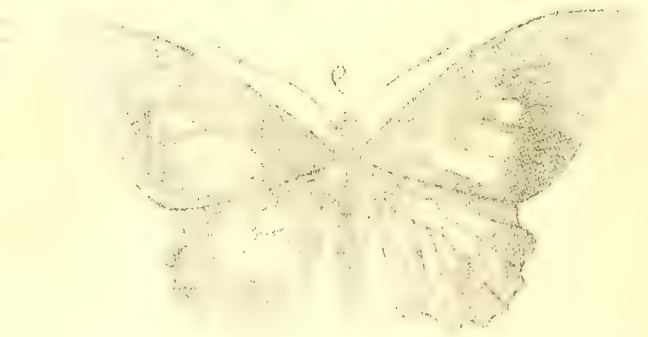
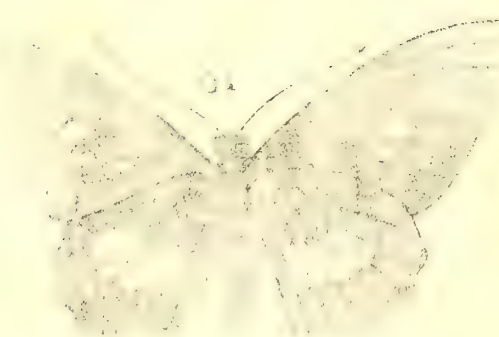
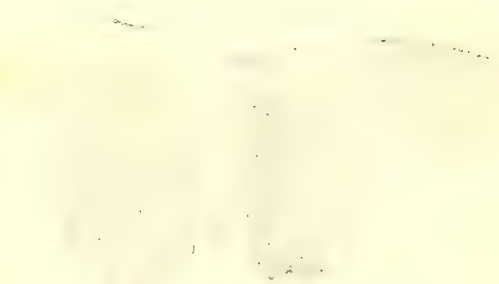
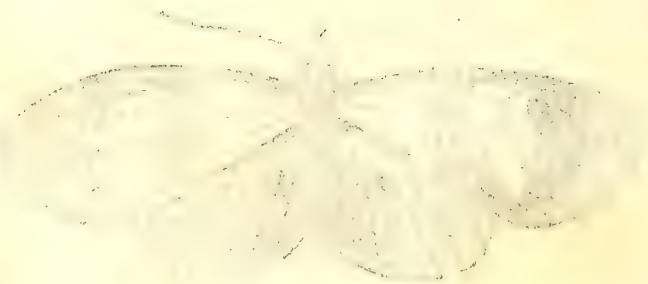
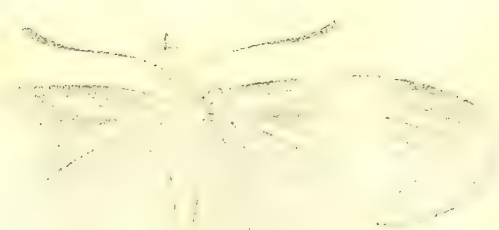
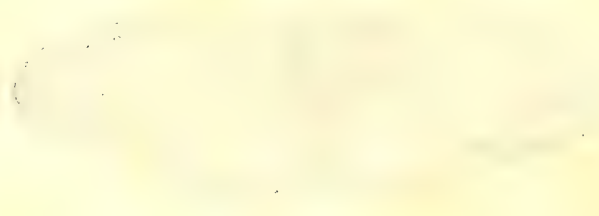
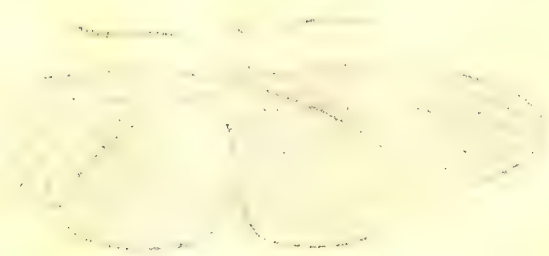
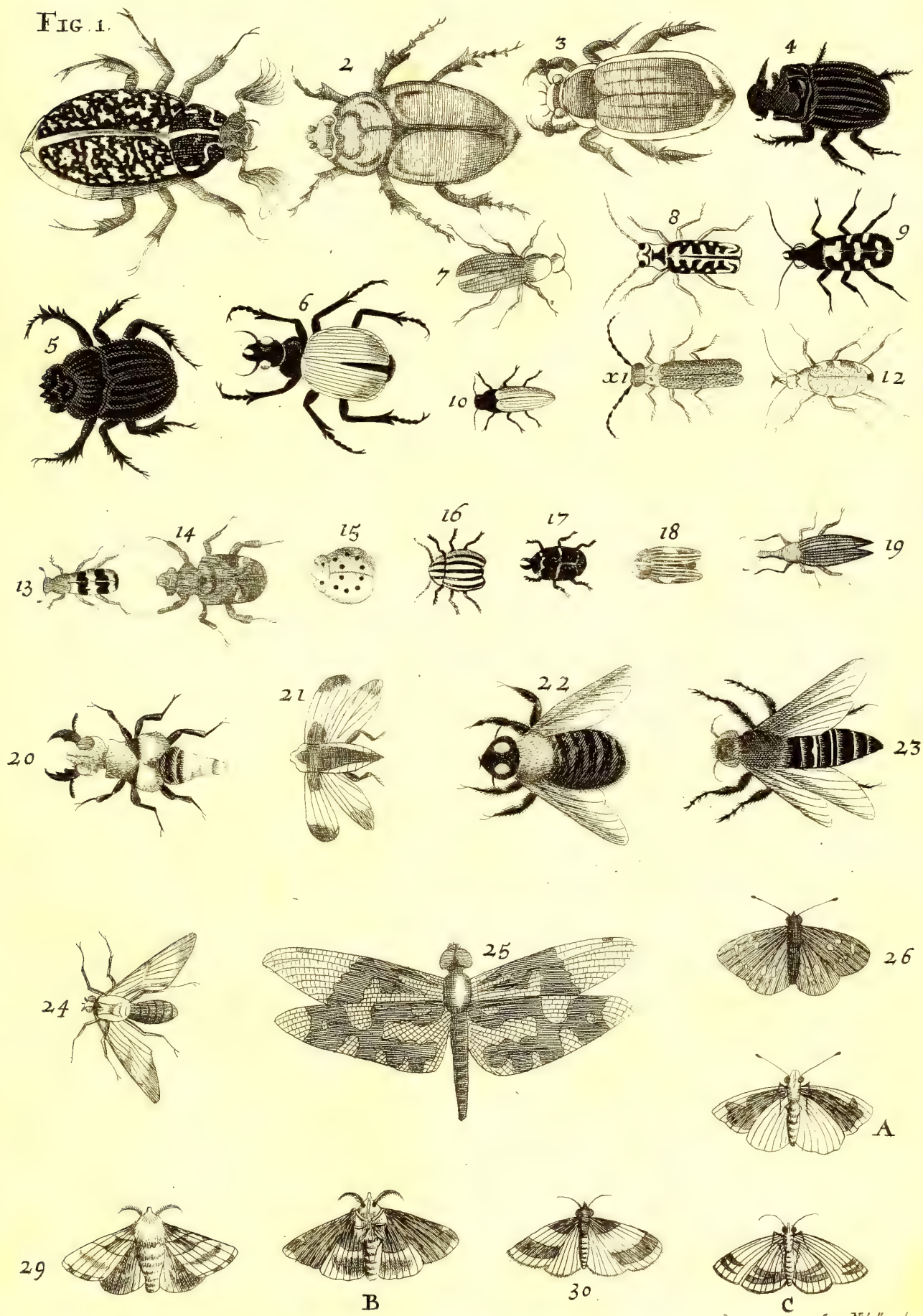


FIG. 1.





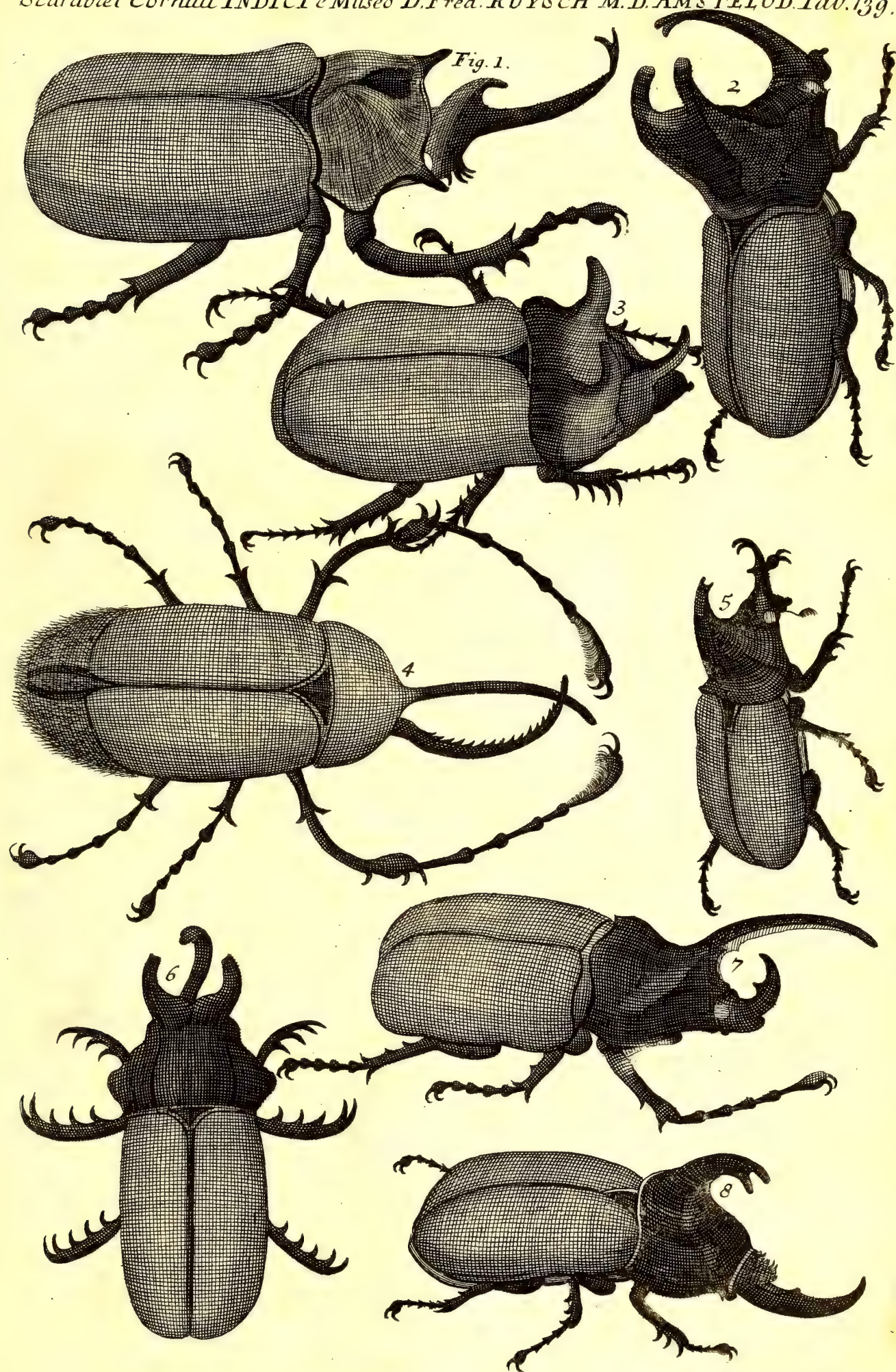
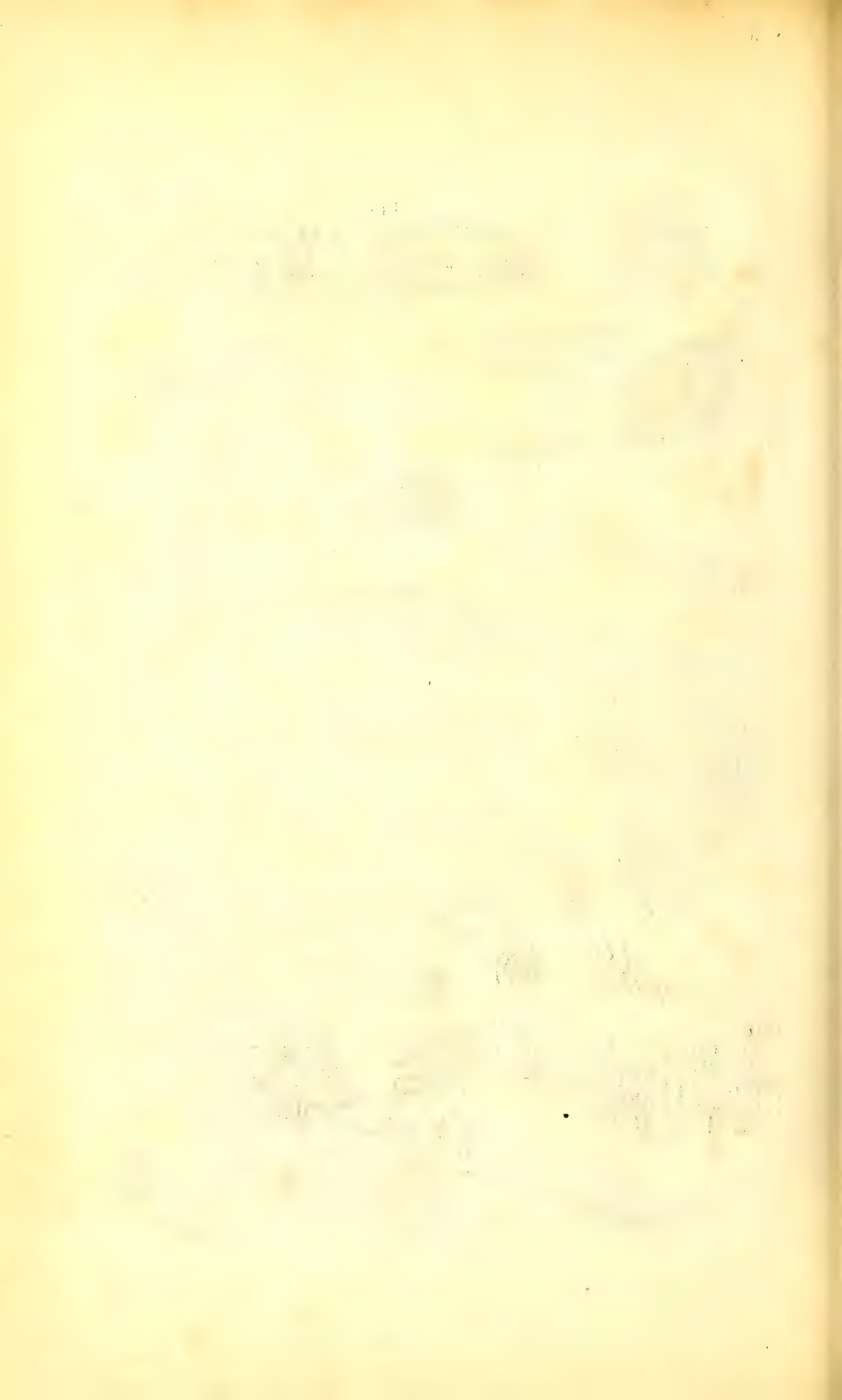






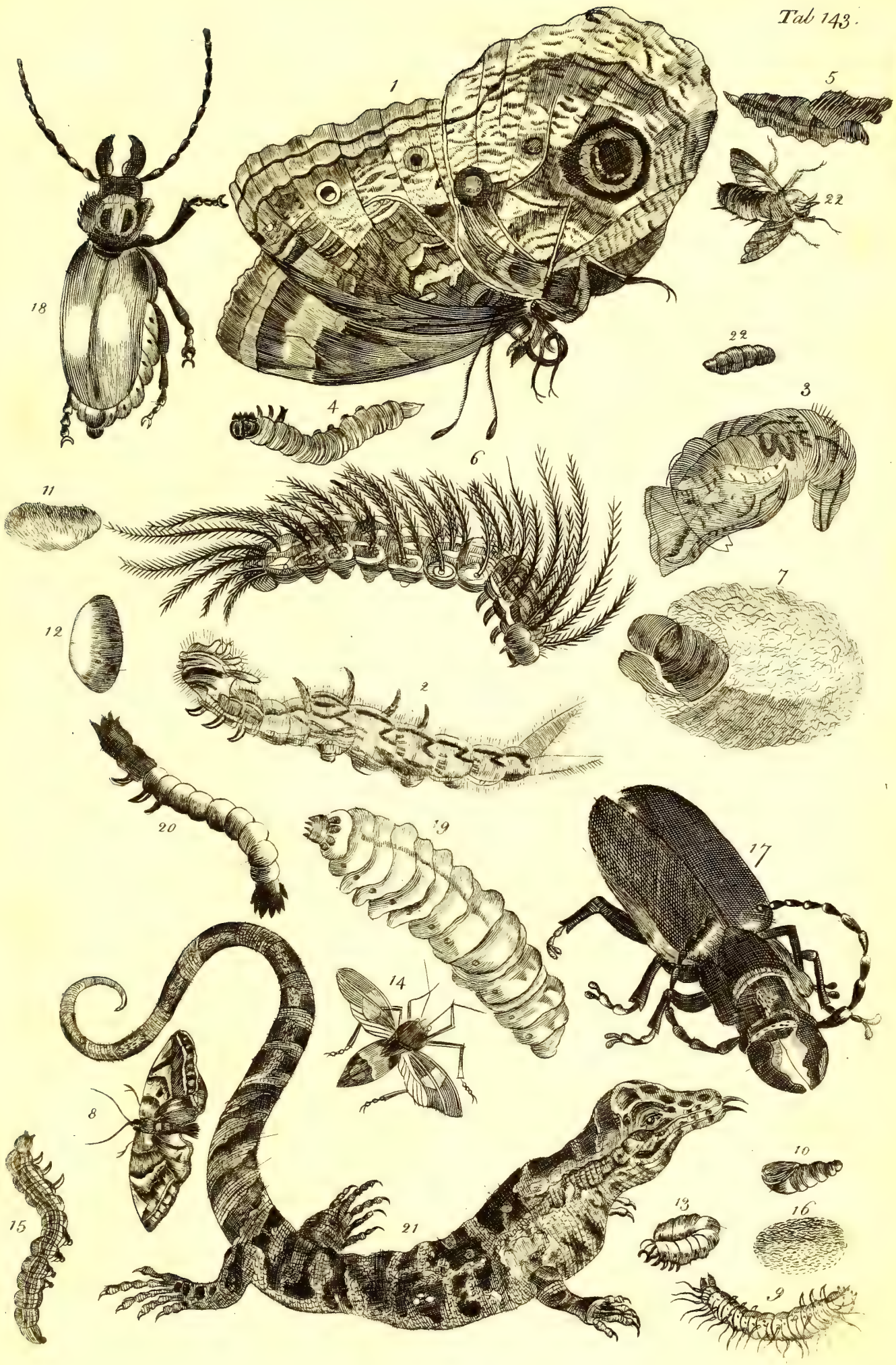
Fig. 1.













TAB 144.

FIG. 1.



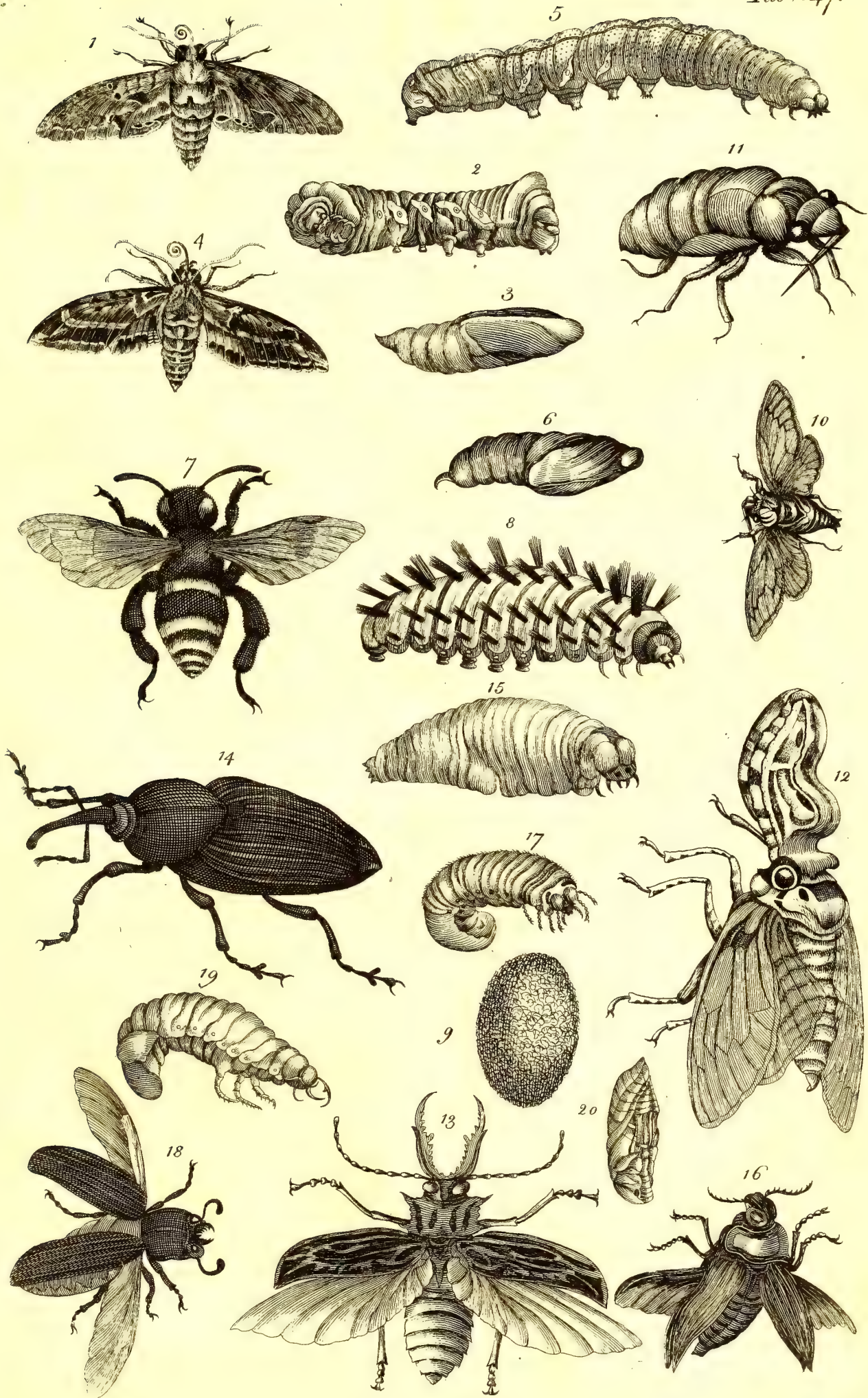


FIG. I









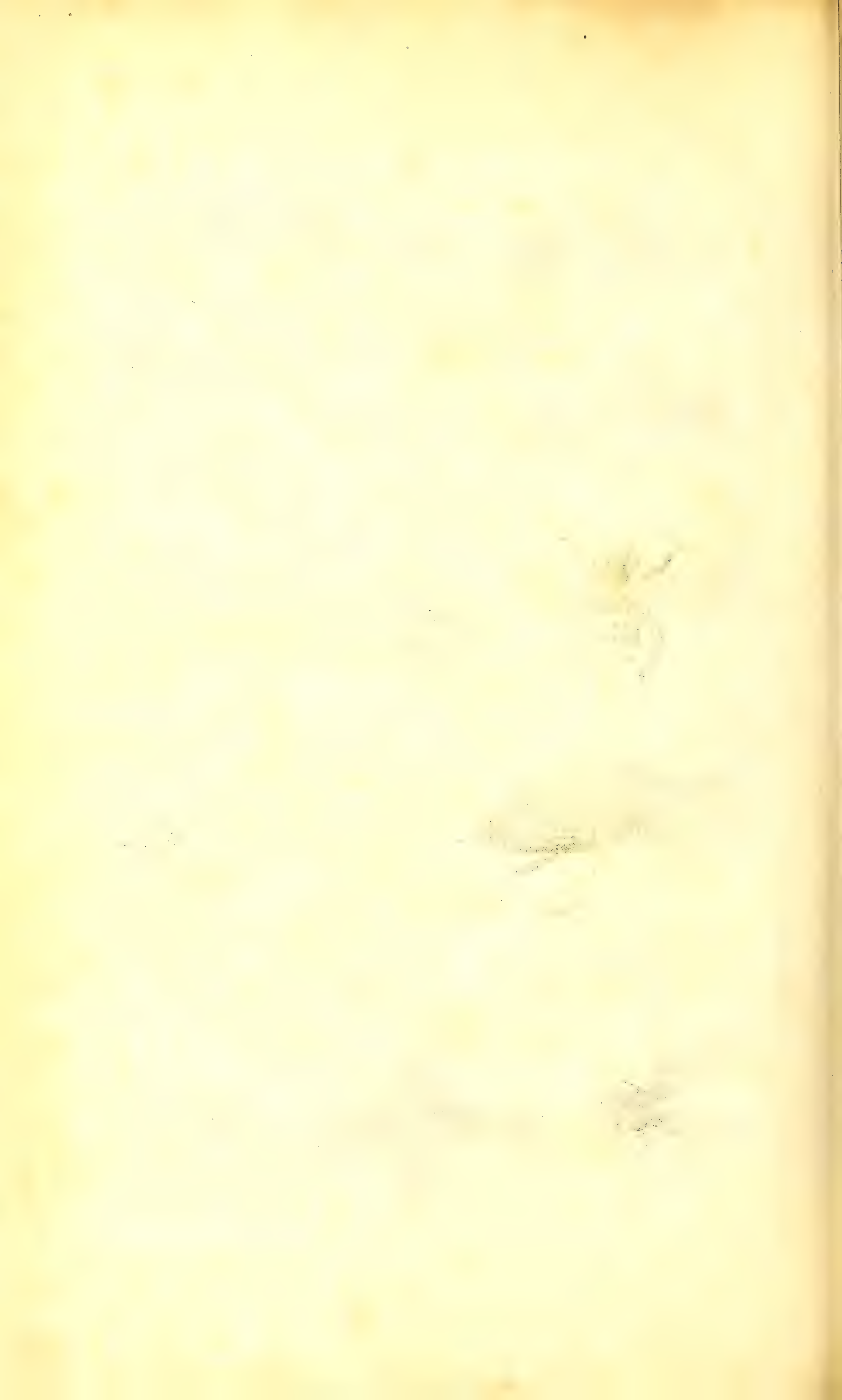


FIG. 1

TAB. 148.

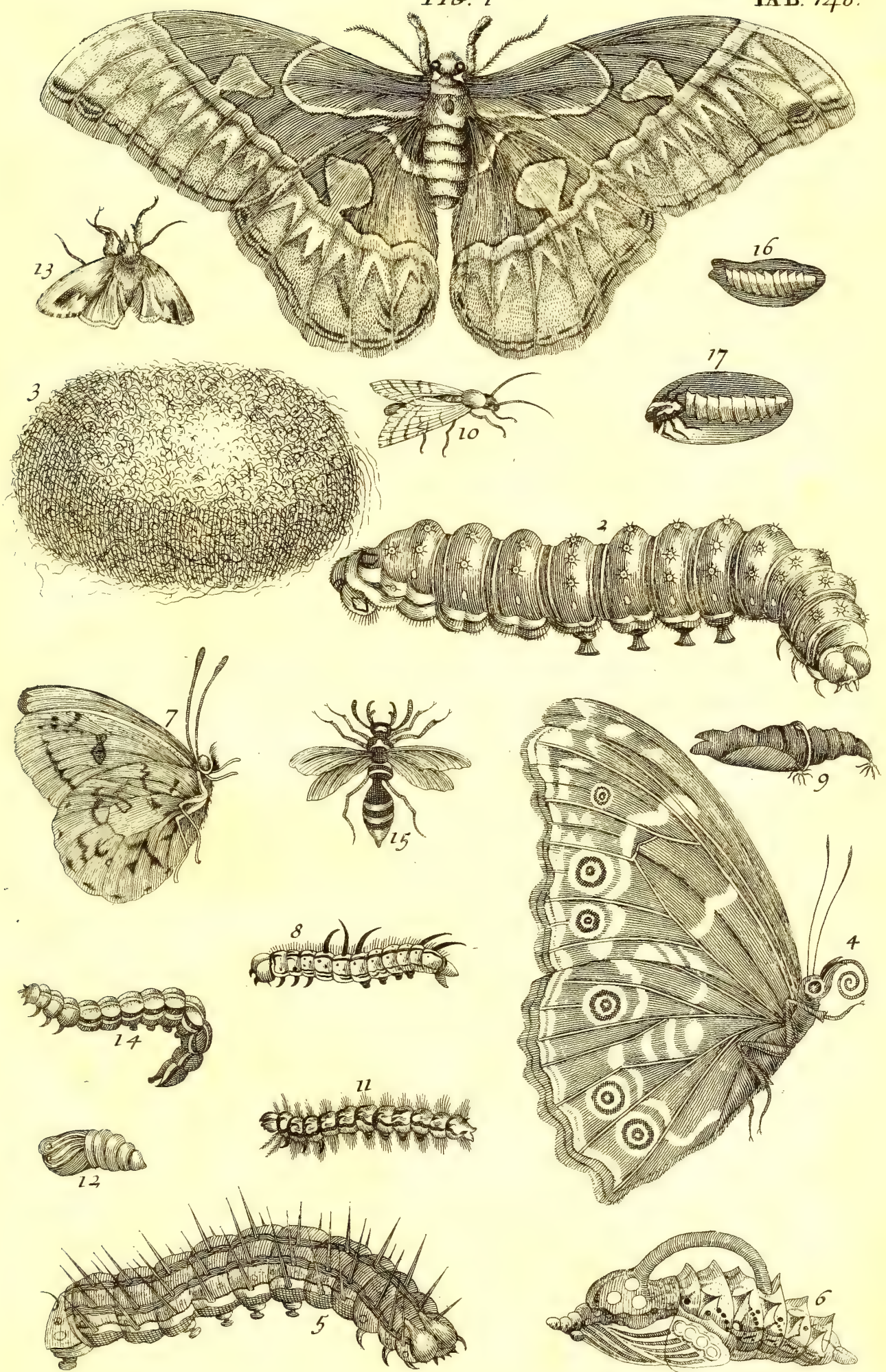
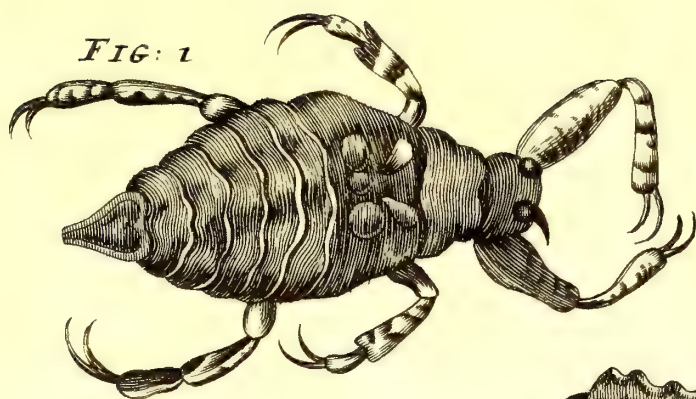


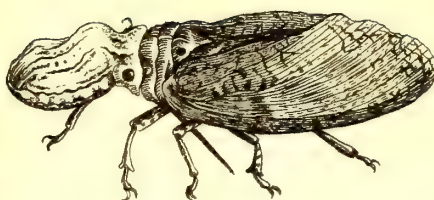




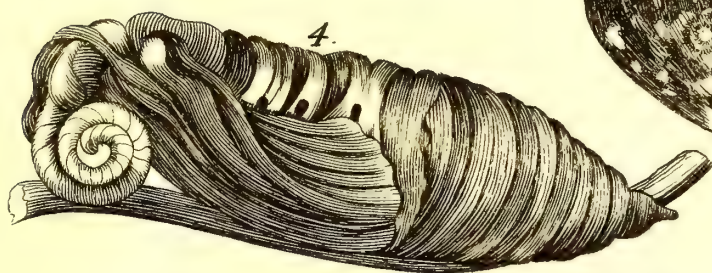
FIG: 1



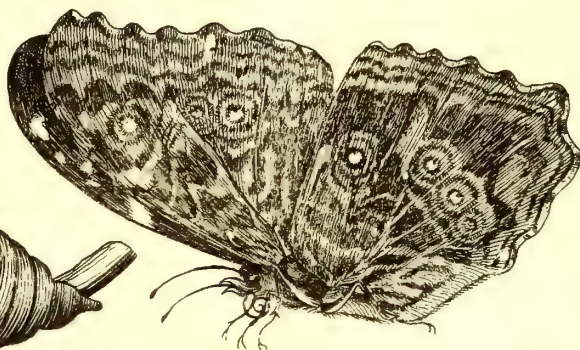
2.



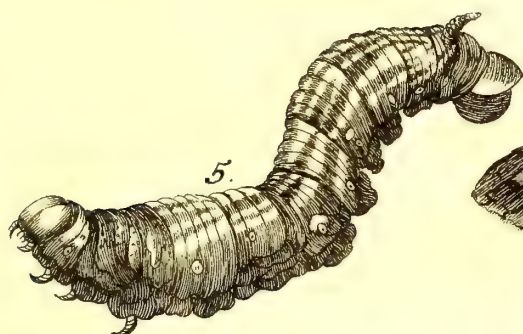
4.



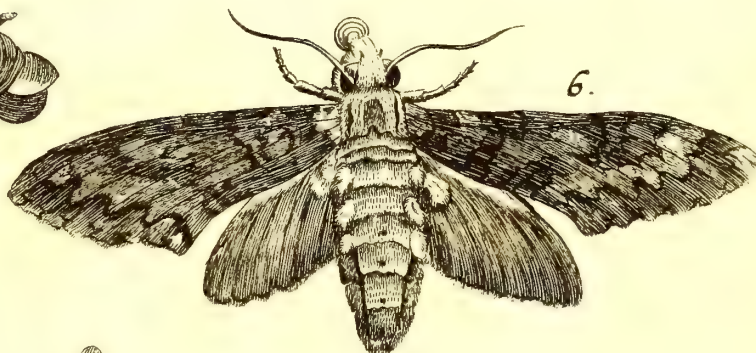
3.



5.



6.



7.



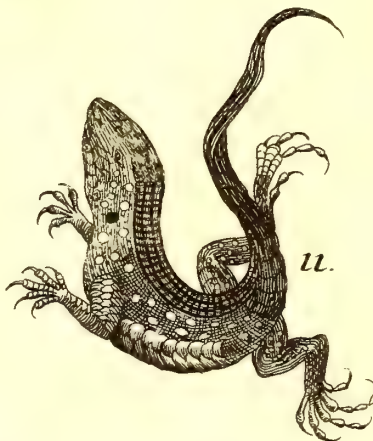
8.



10.



11.



9.



12.



FIG 1.





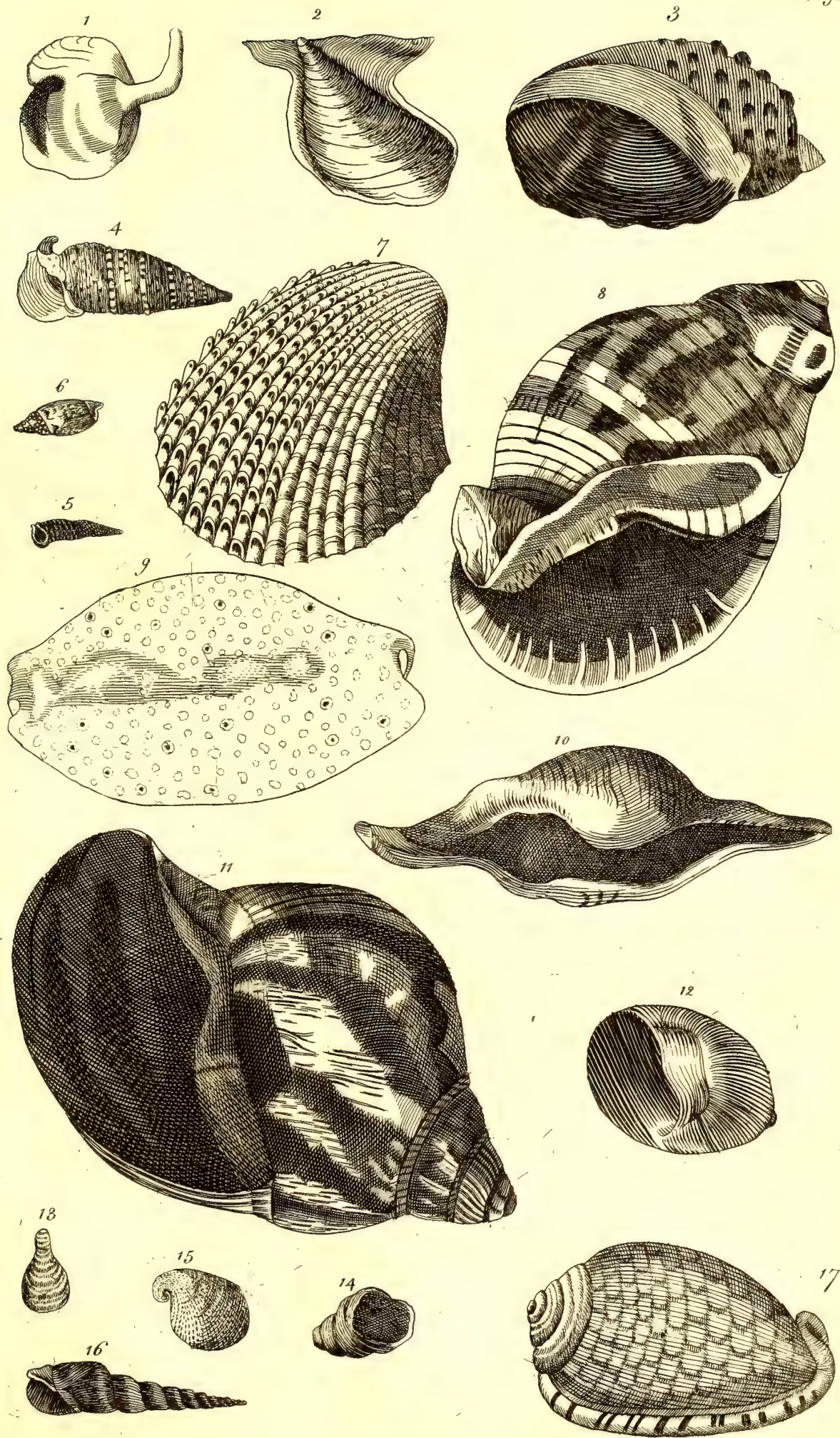
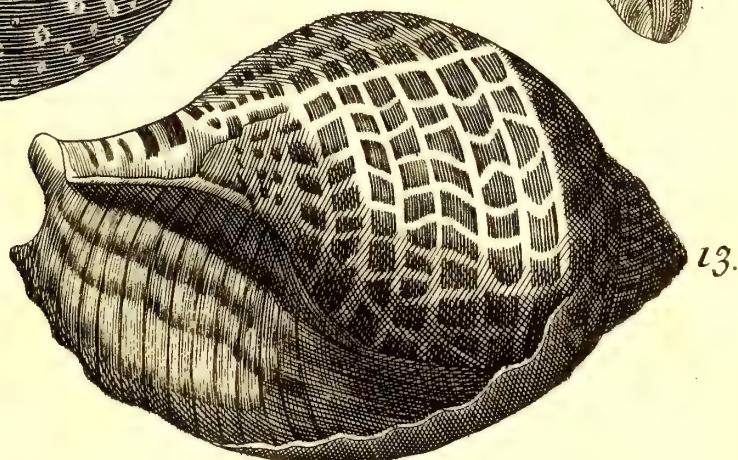
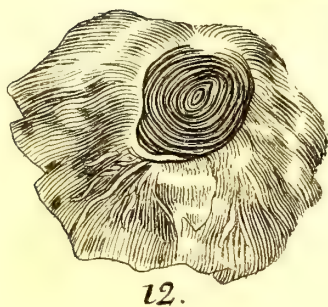
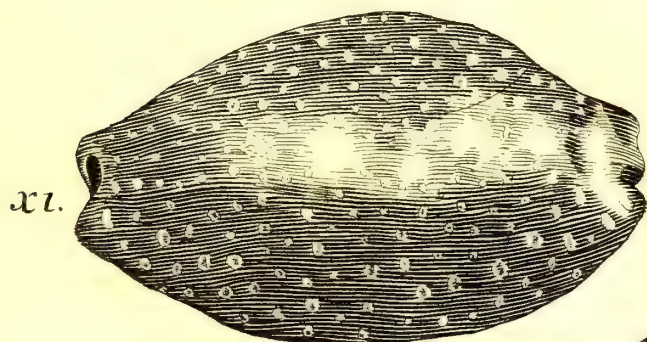
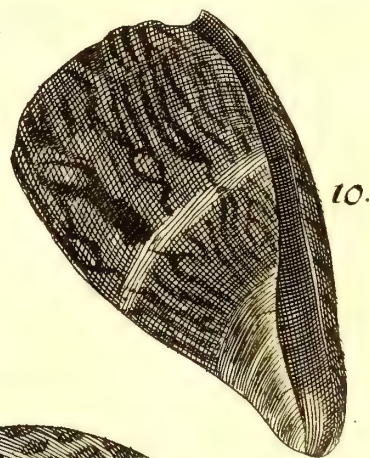
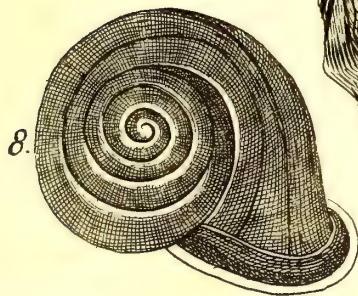
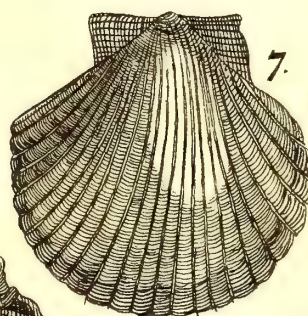
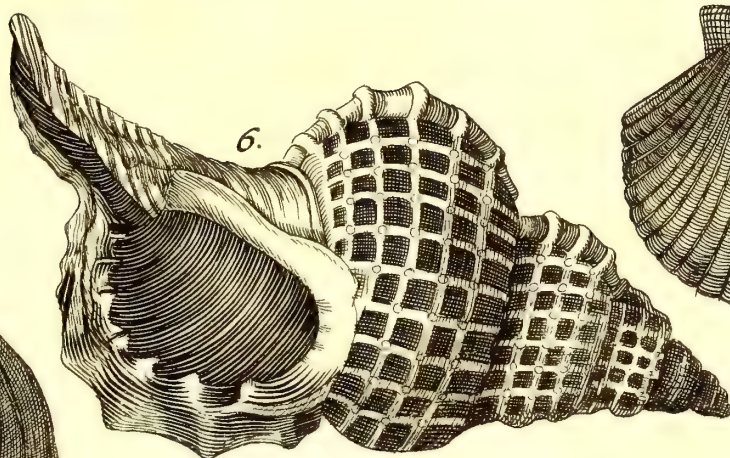
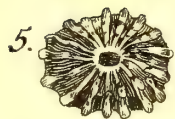
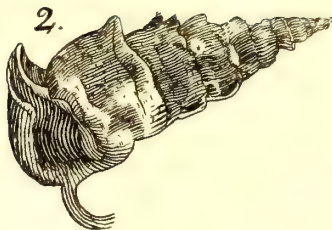
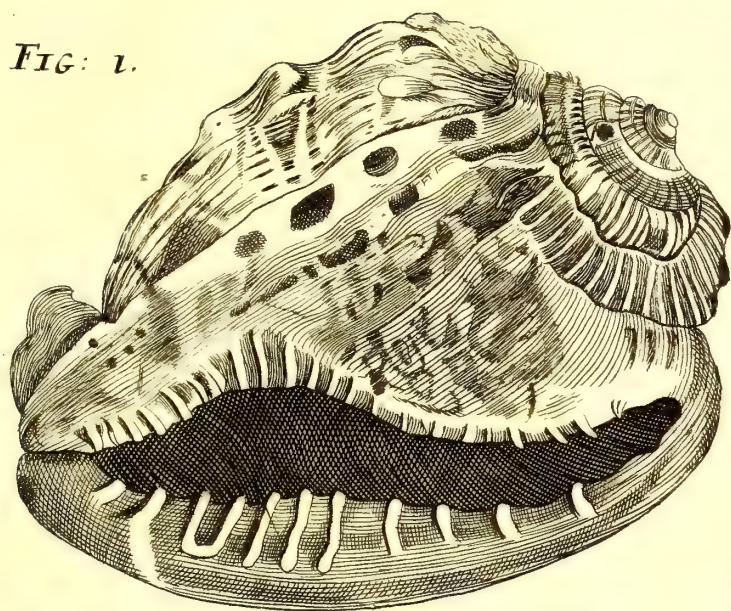
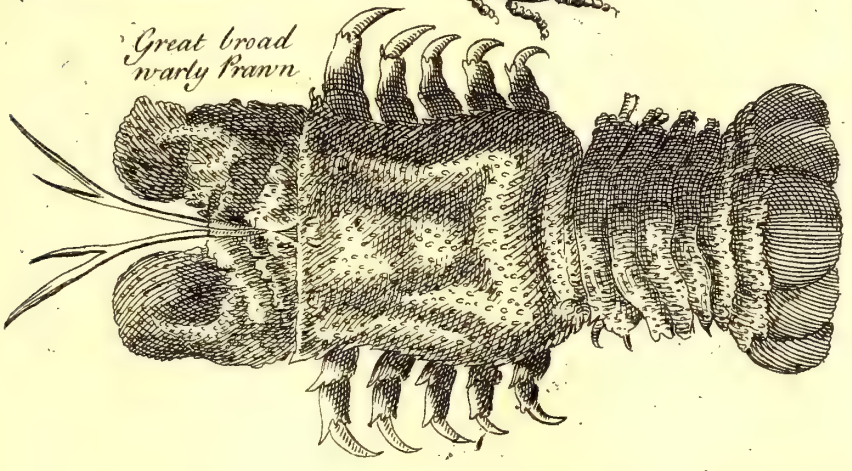
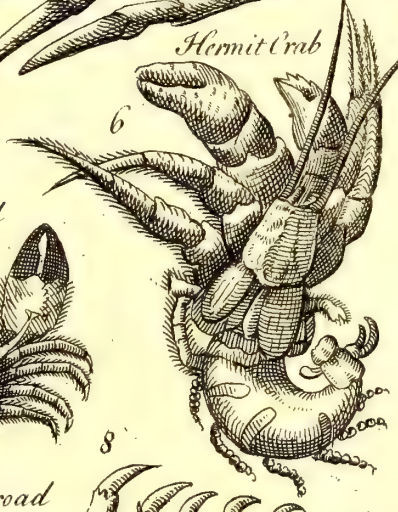
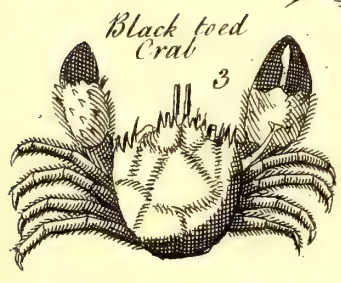
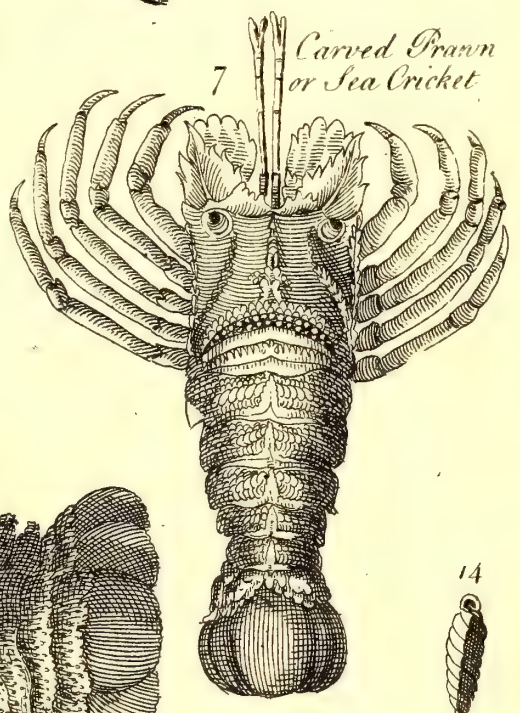
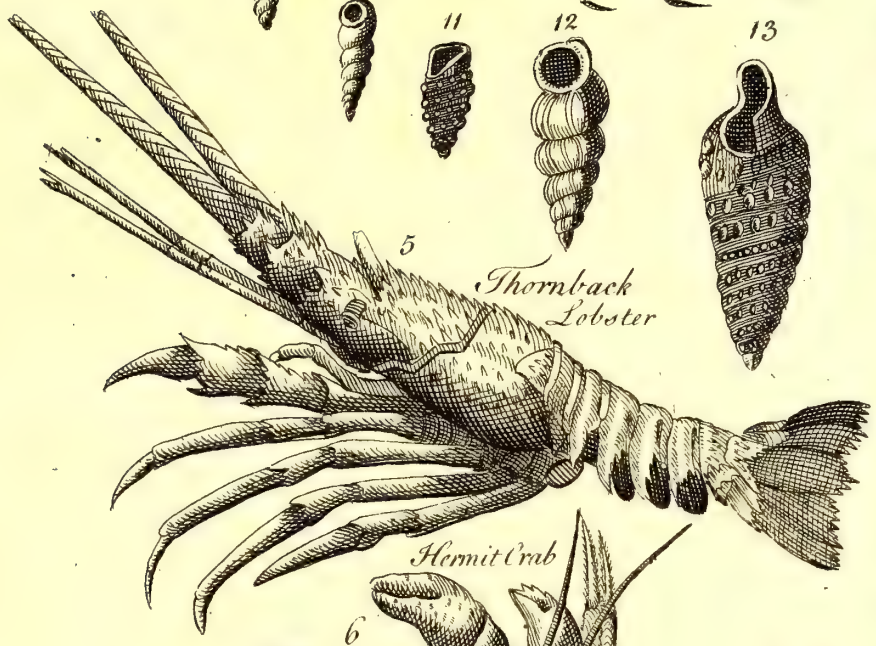
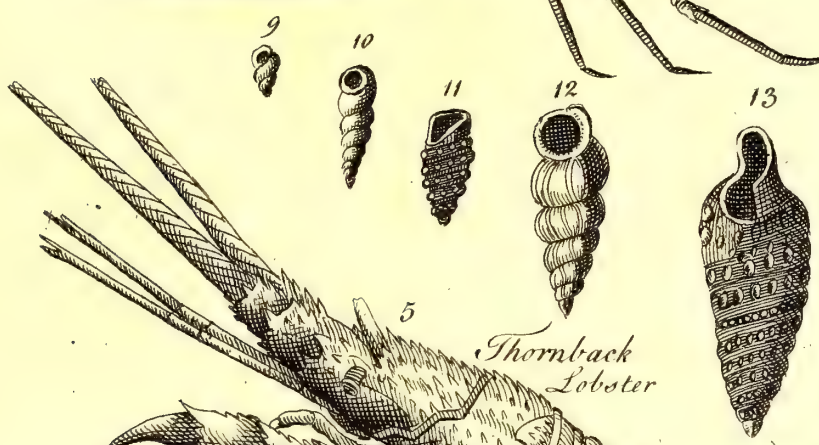
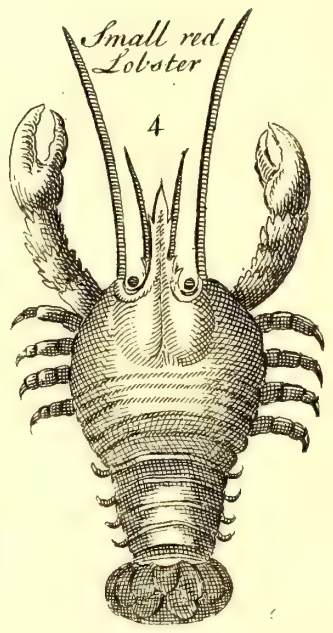
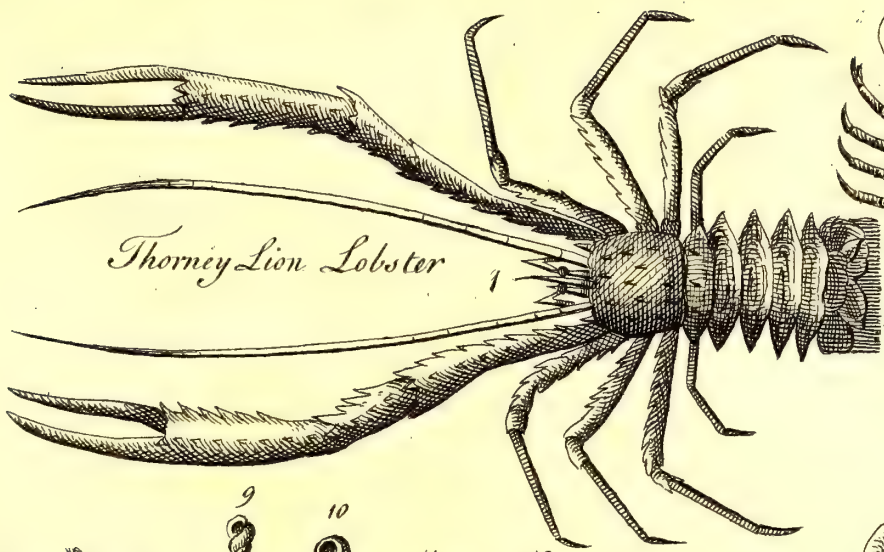
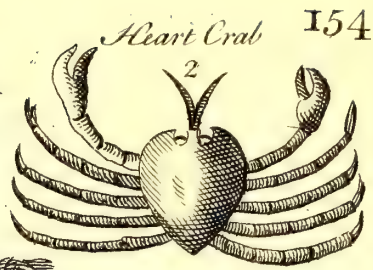
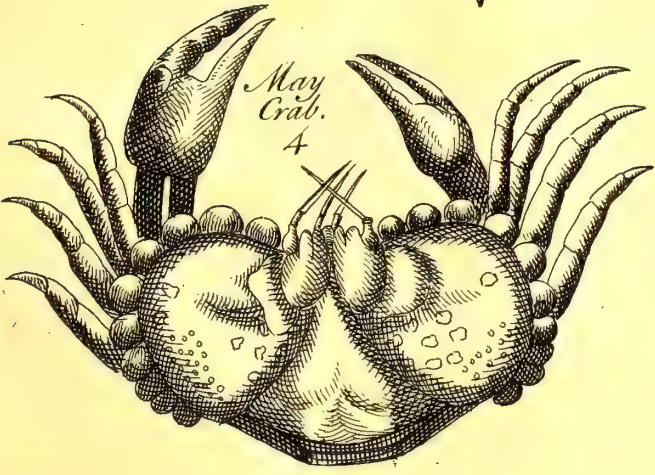
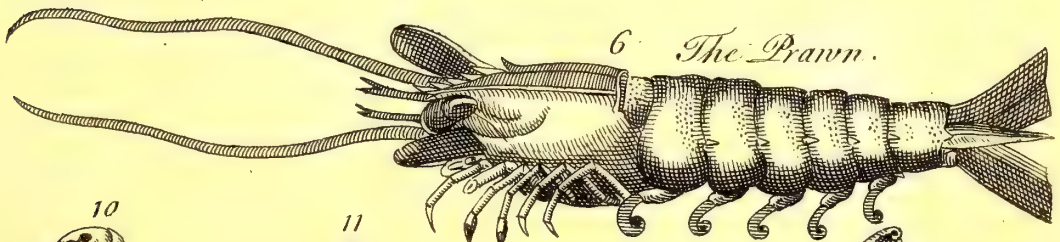
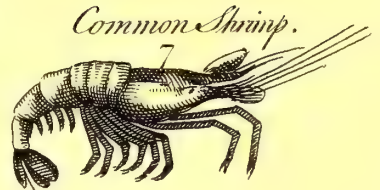
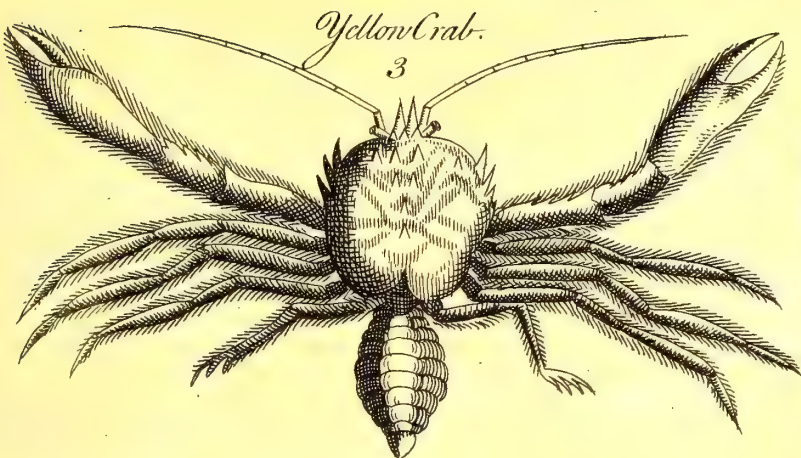
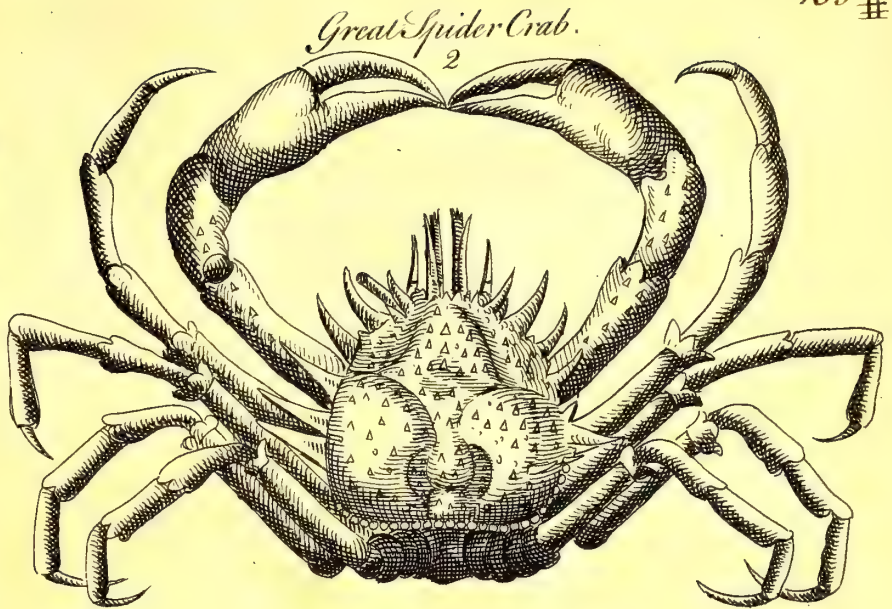
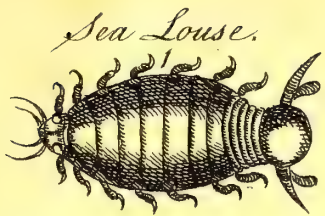




FIG: 1.









Cochleæ Pernambuc. &c BRASILIÆ. Pernambuc & other BRASIL Shells. TAB. 156
From Bonani

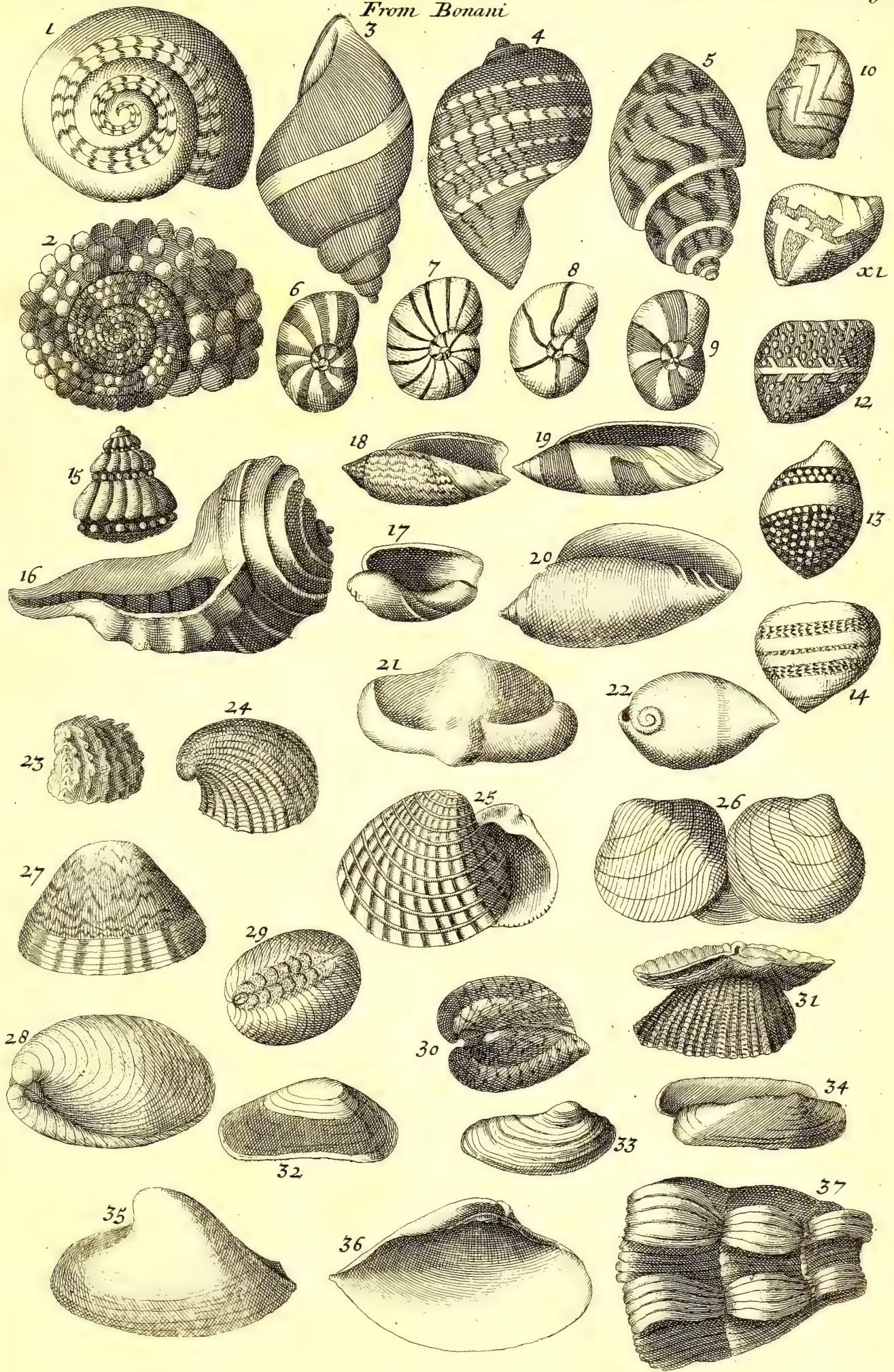


FIG. 1.

TAB. I.

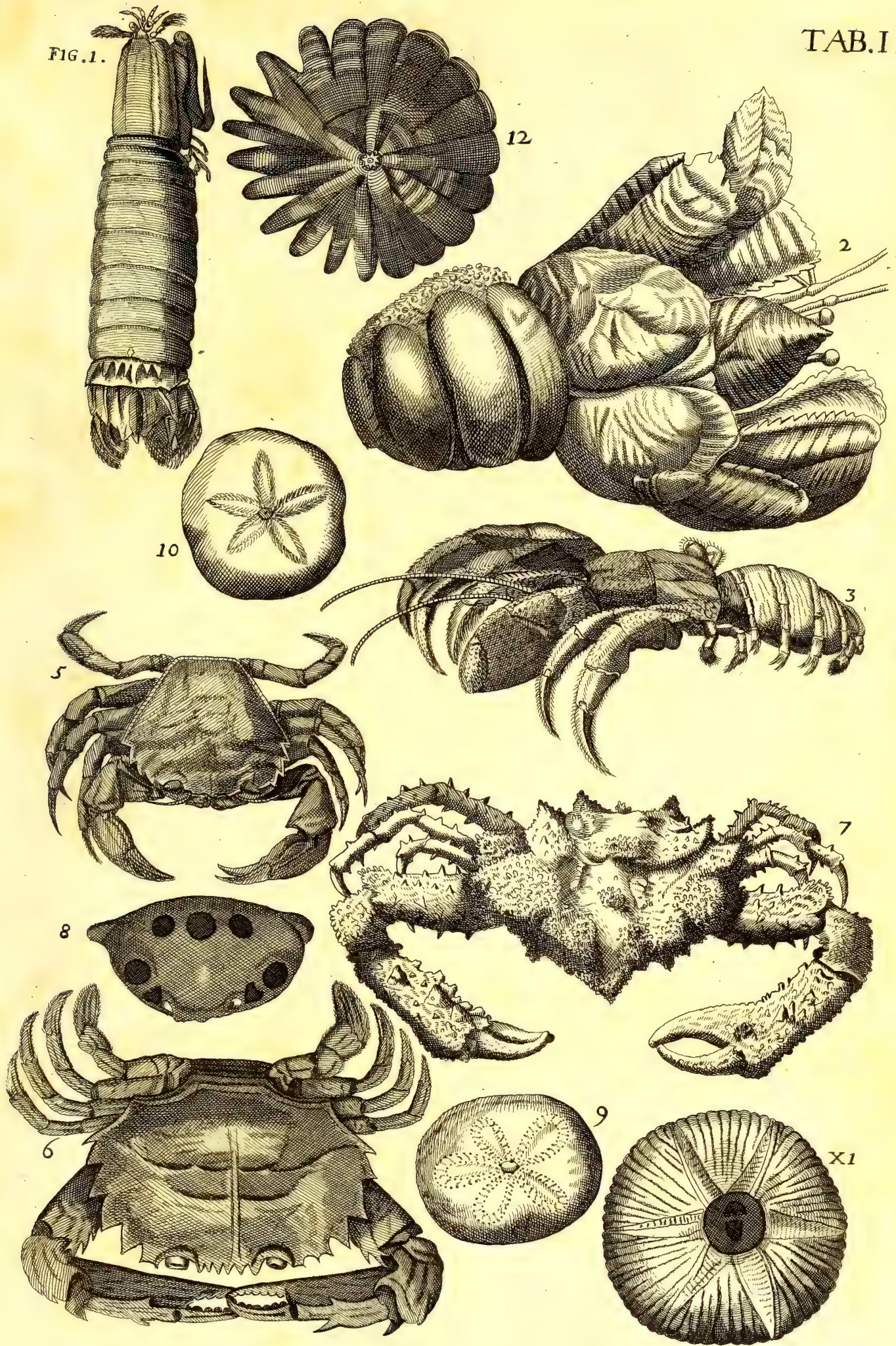




Fig. 1

Tab. II.

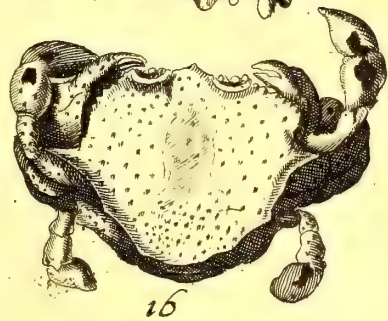
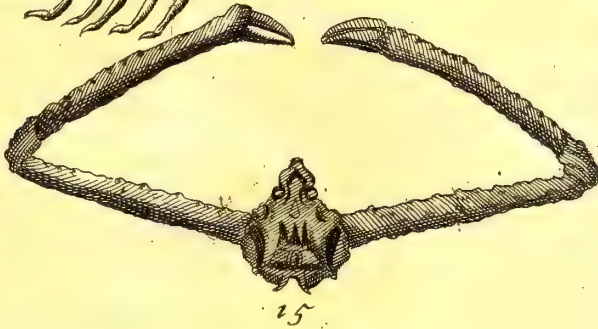
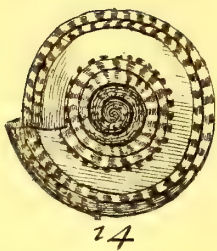
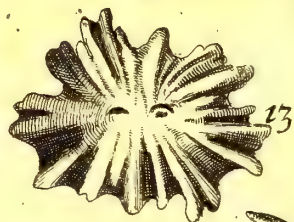
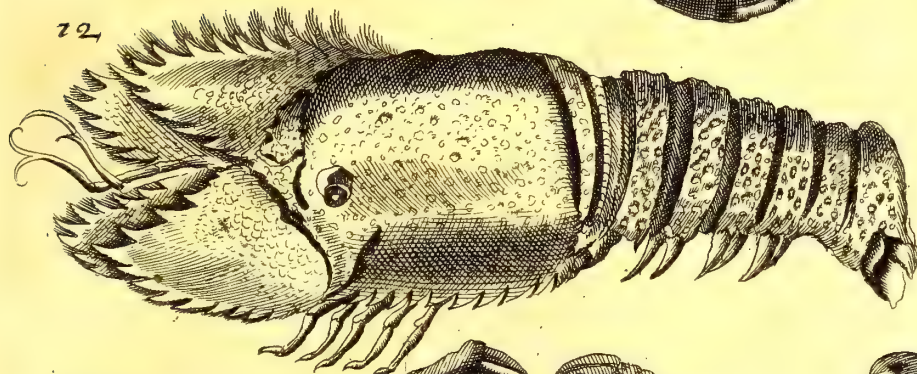
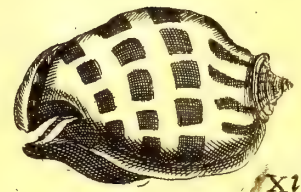
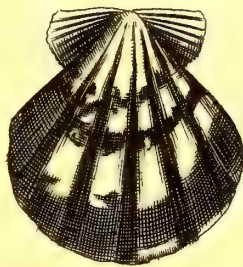
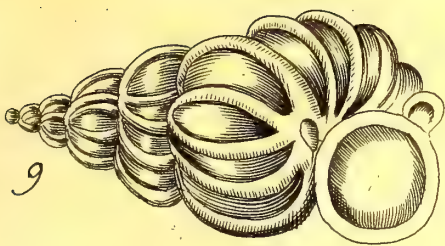
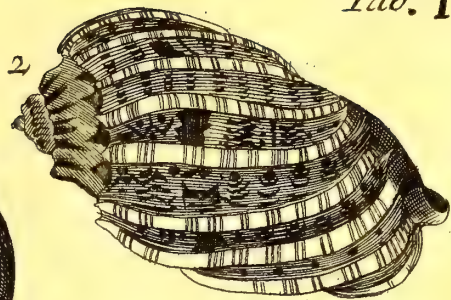


FIG. 1.

TAB. III.

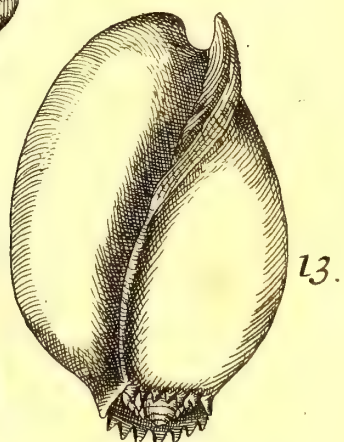
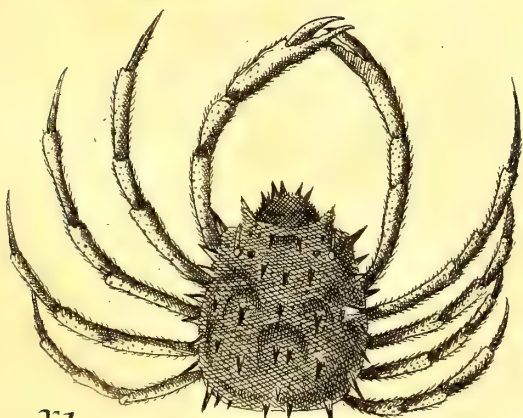
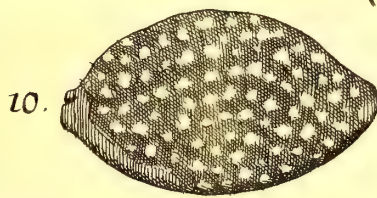
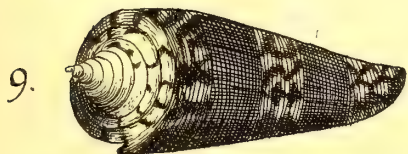
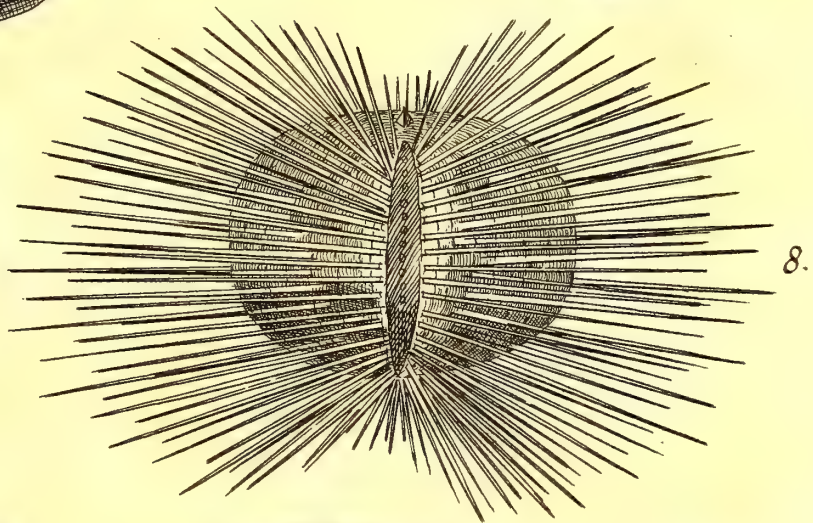
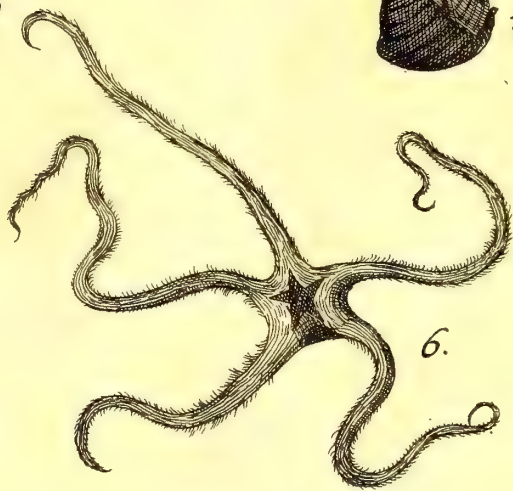
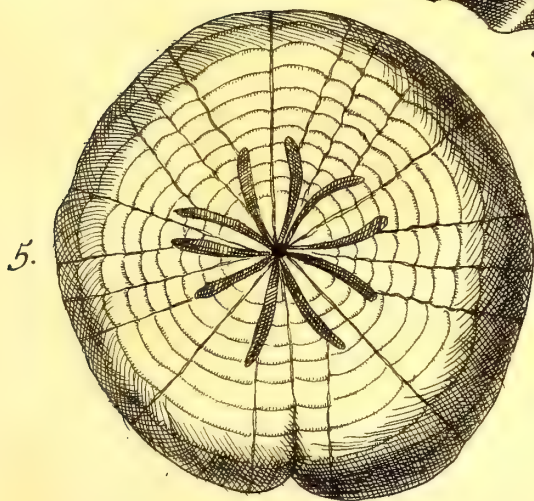
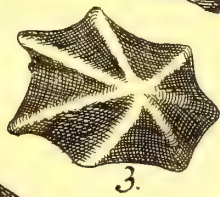
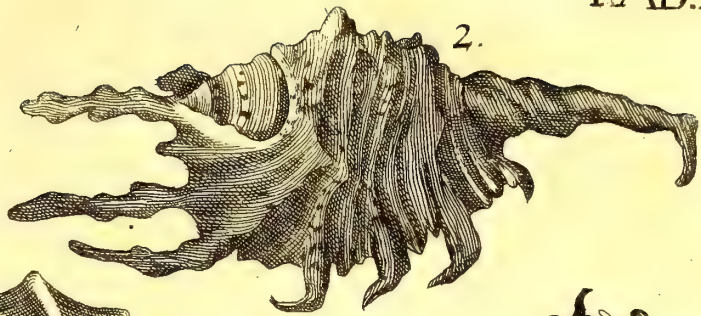
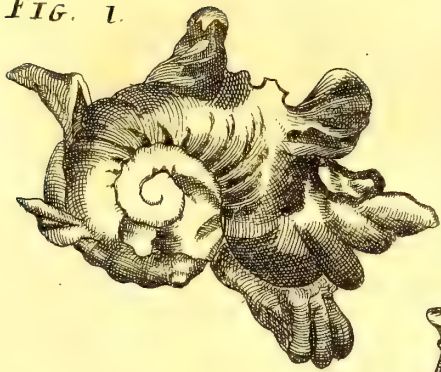
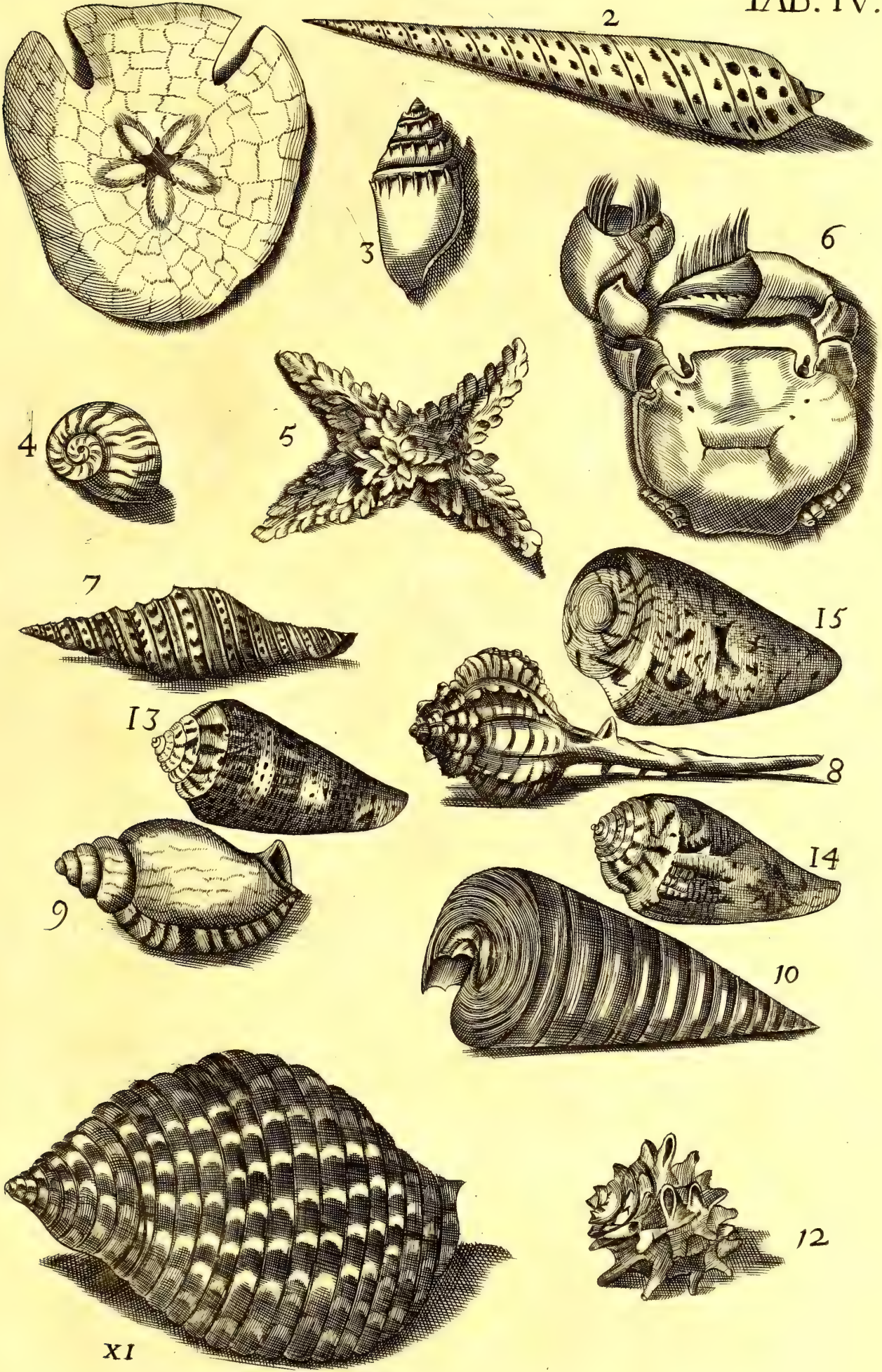


Fig. 1

TAB. IV.



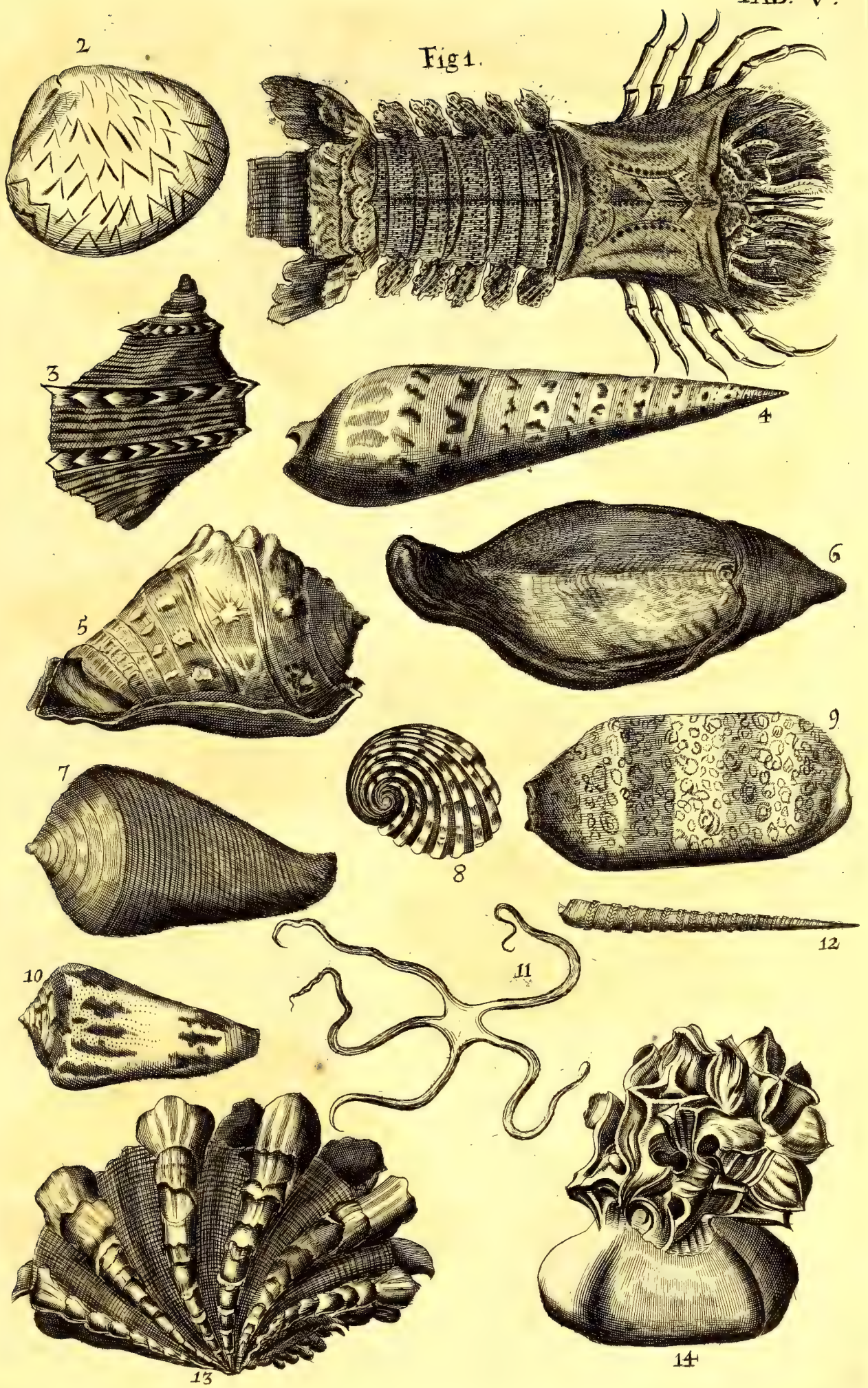




Fig. 1

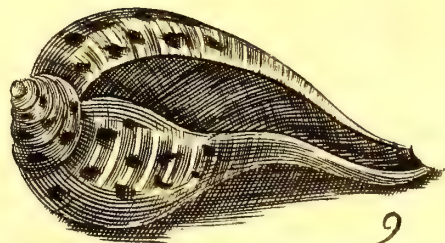
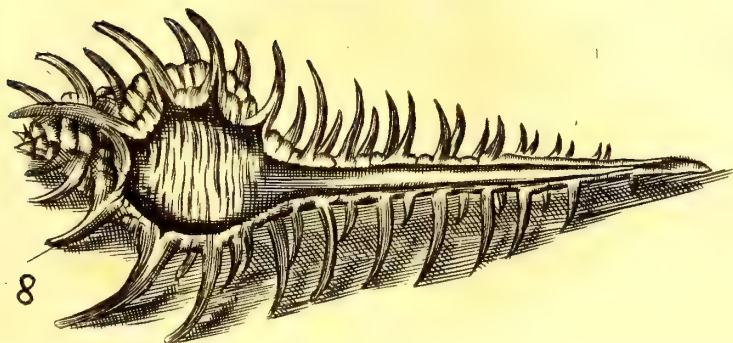
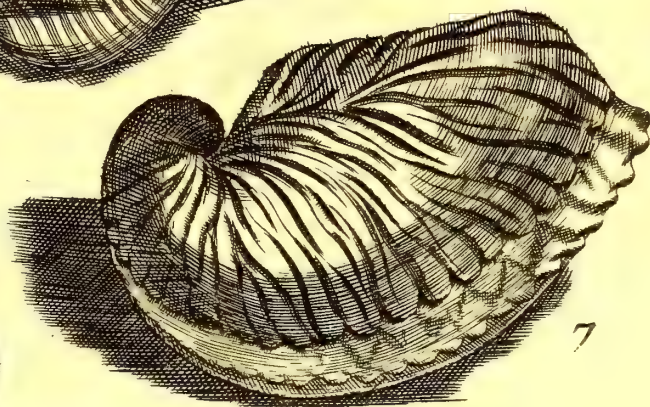
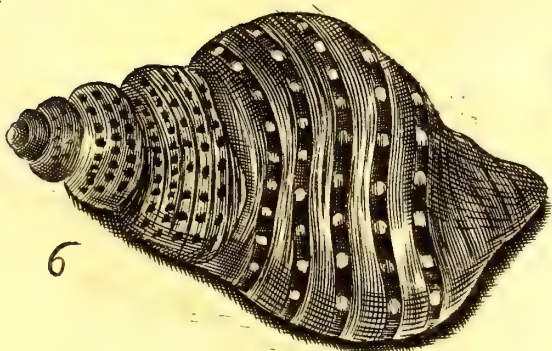
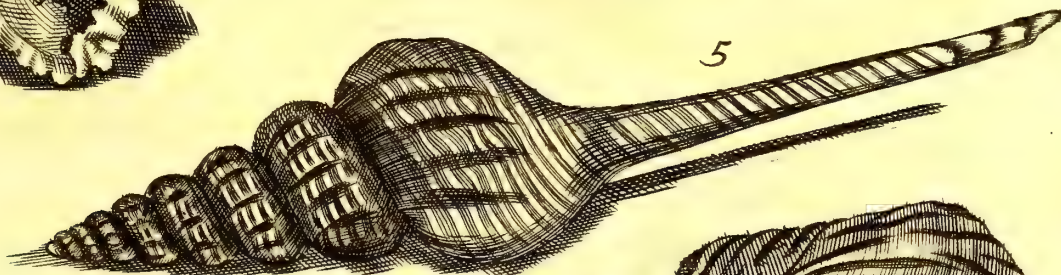
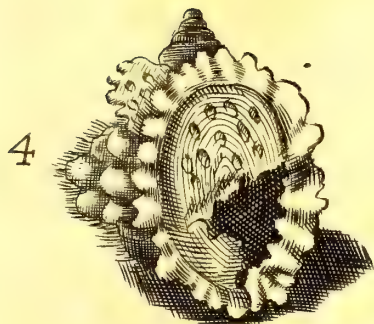
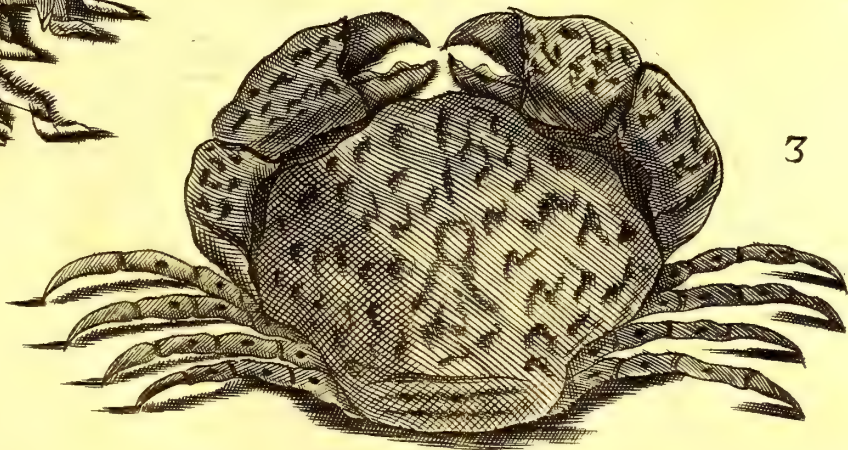
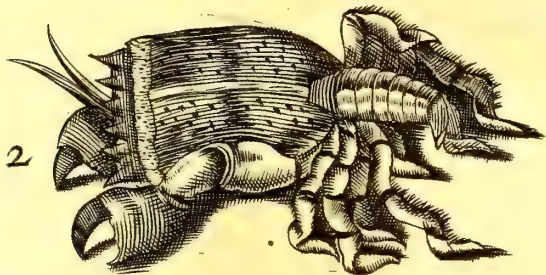
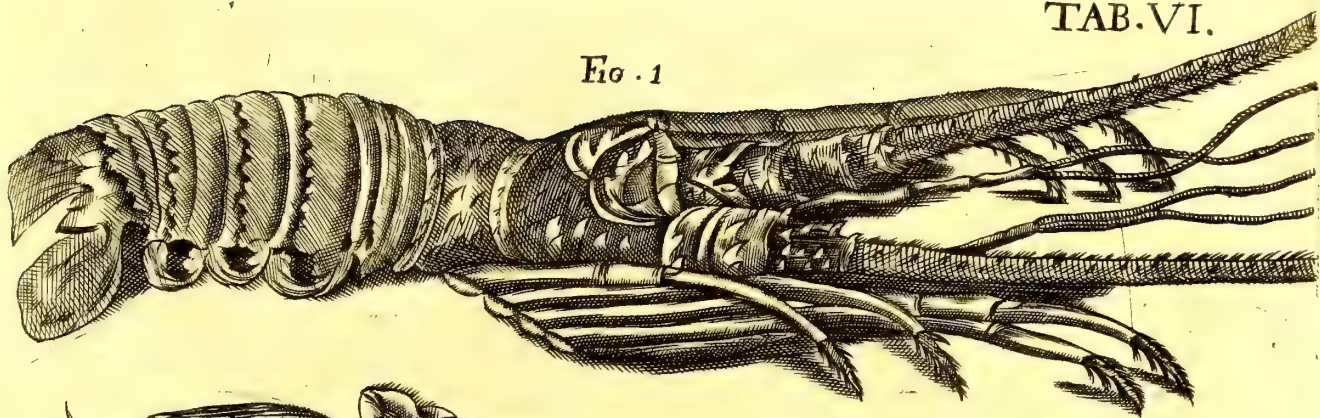


FIG. 1

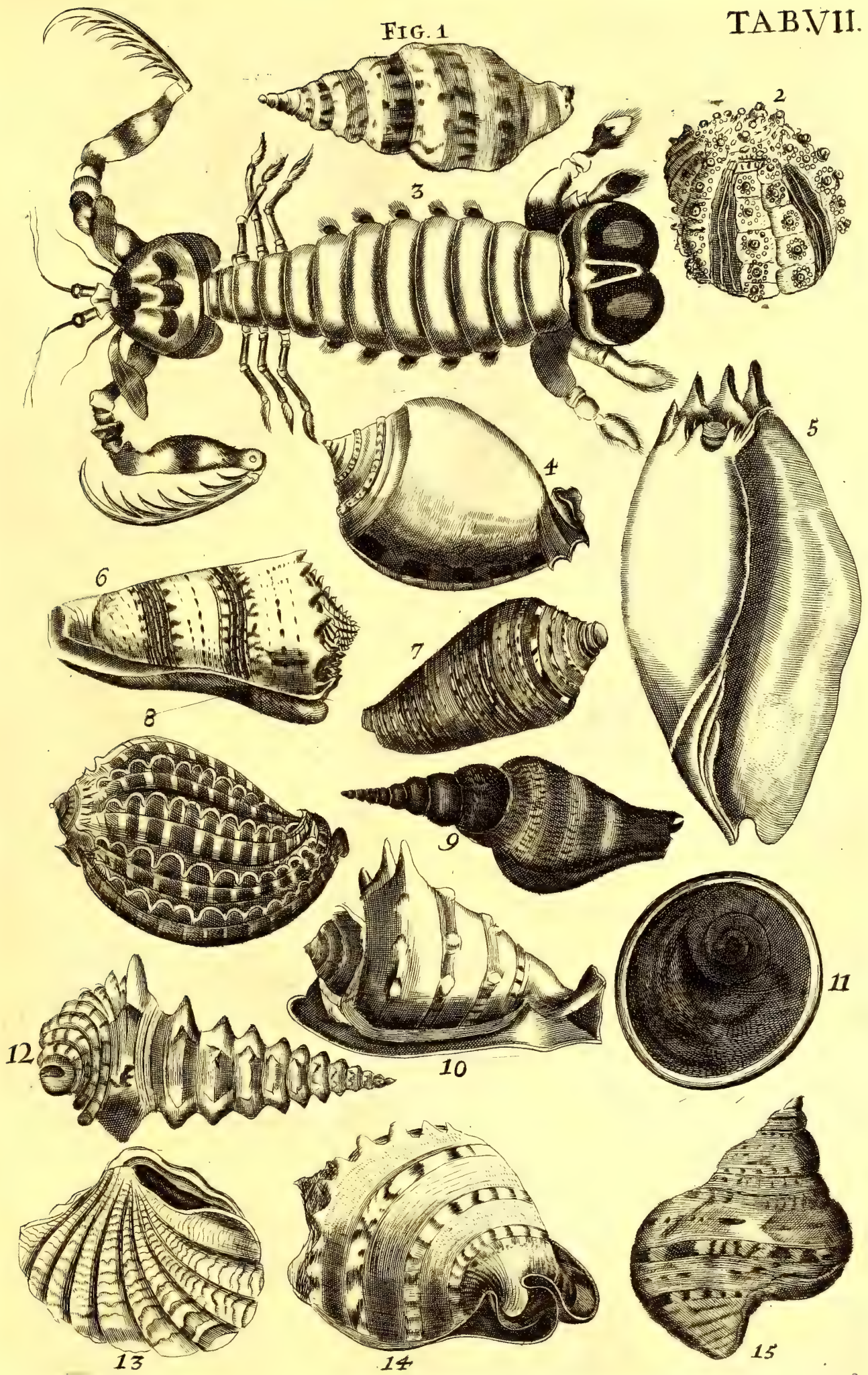


Fig. 1



Fig. I

TAB. IX.

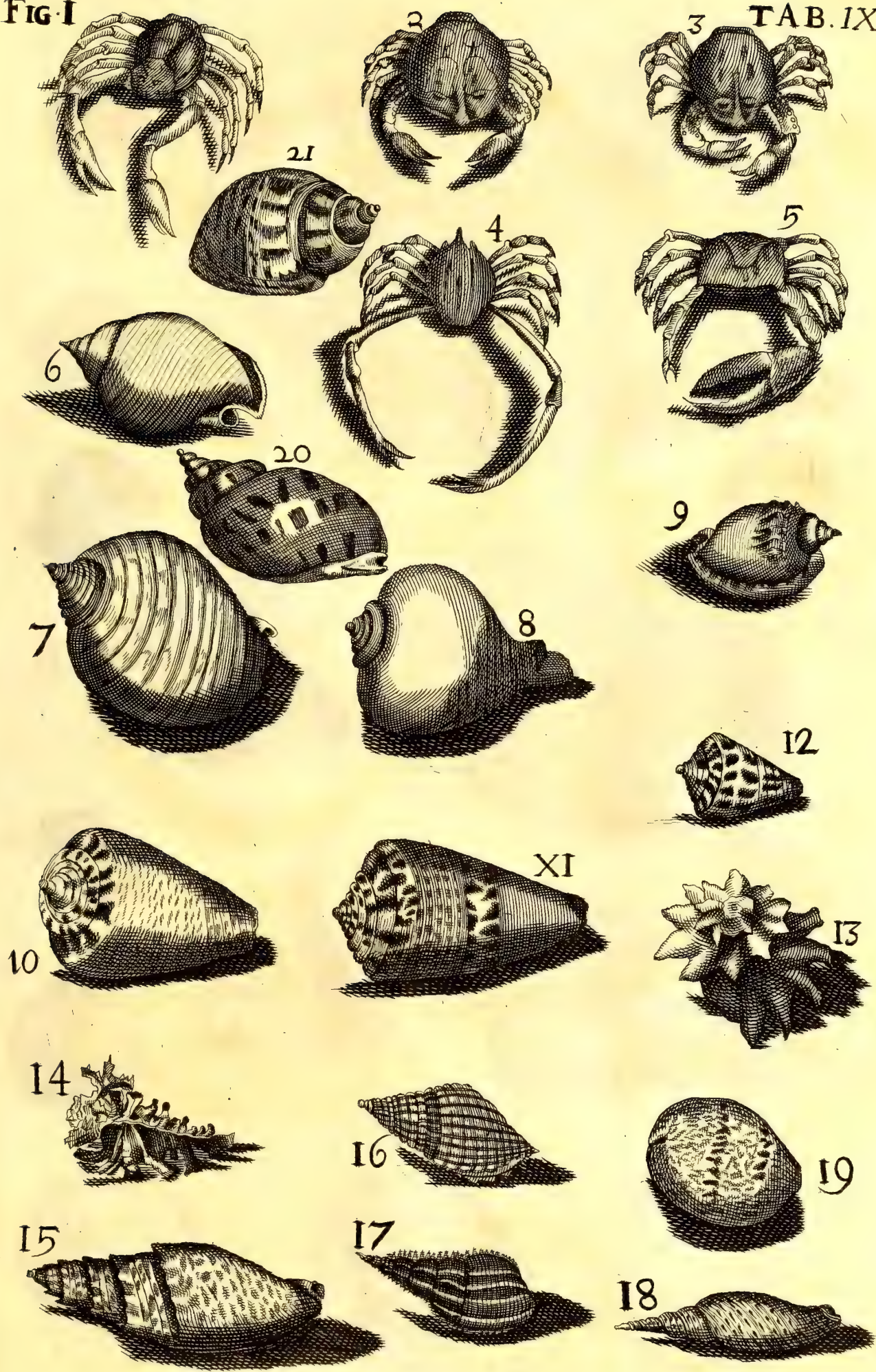




FIG I

TAB. X.



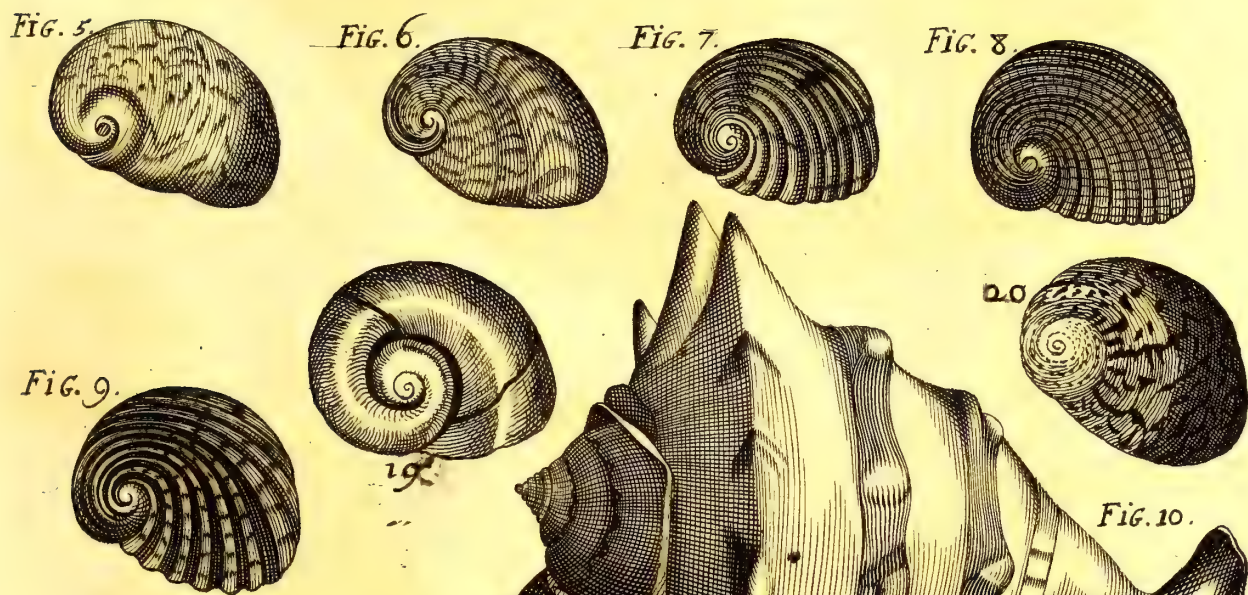
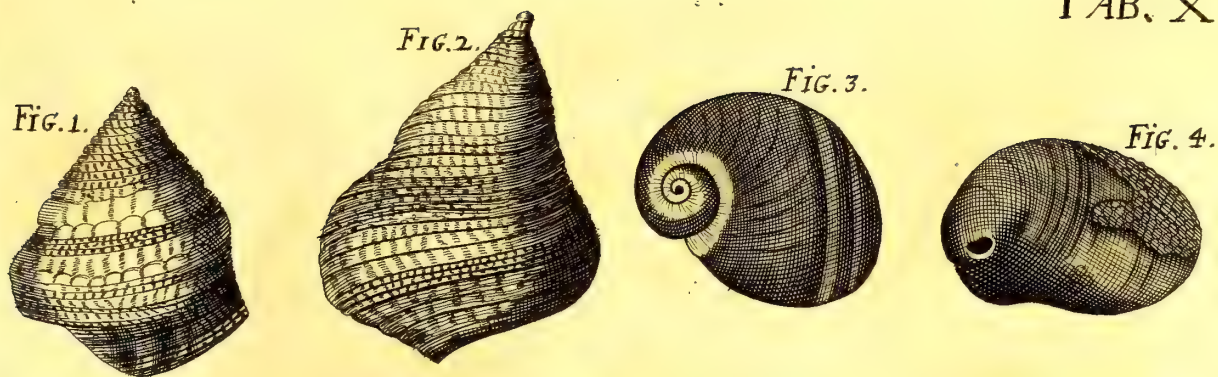
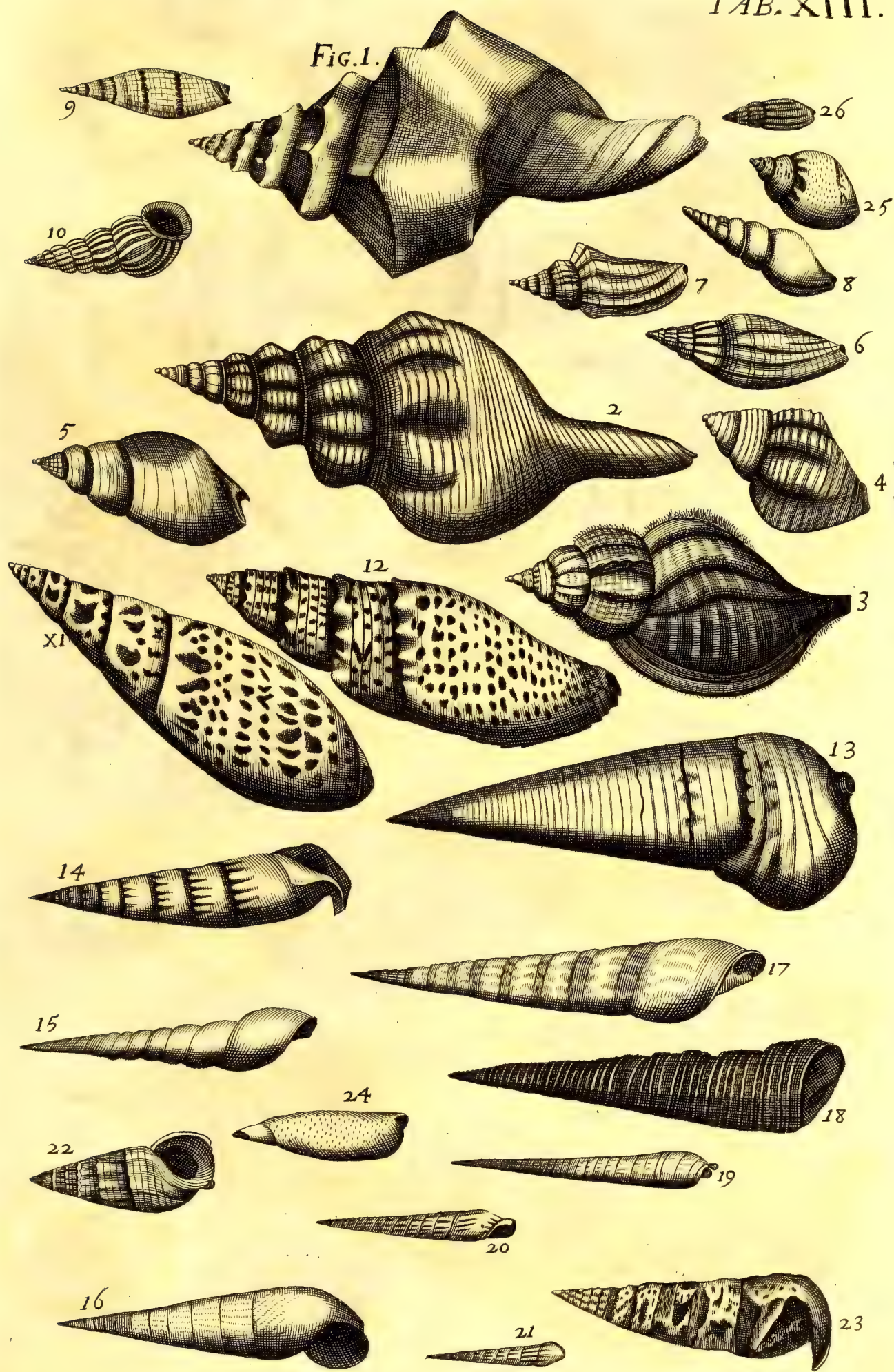






Fig. 1.





TAB. XIV.

FIG. I.

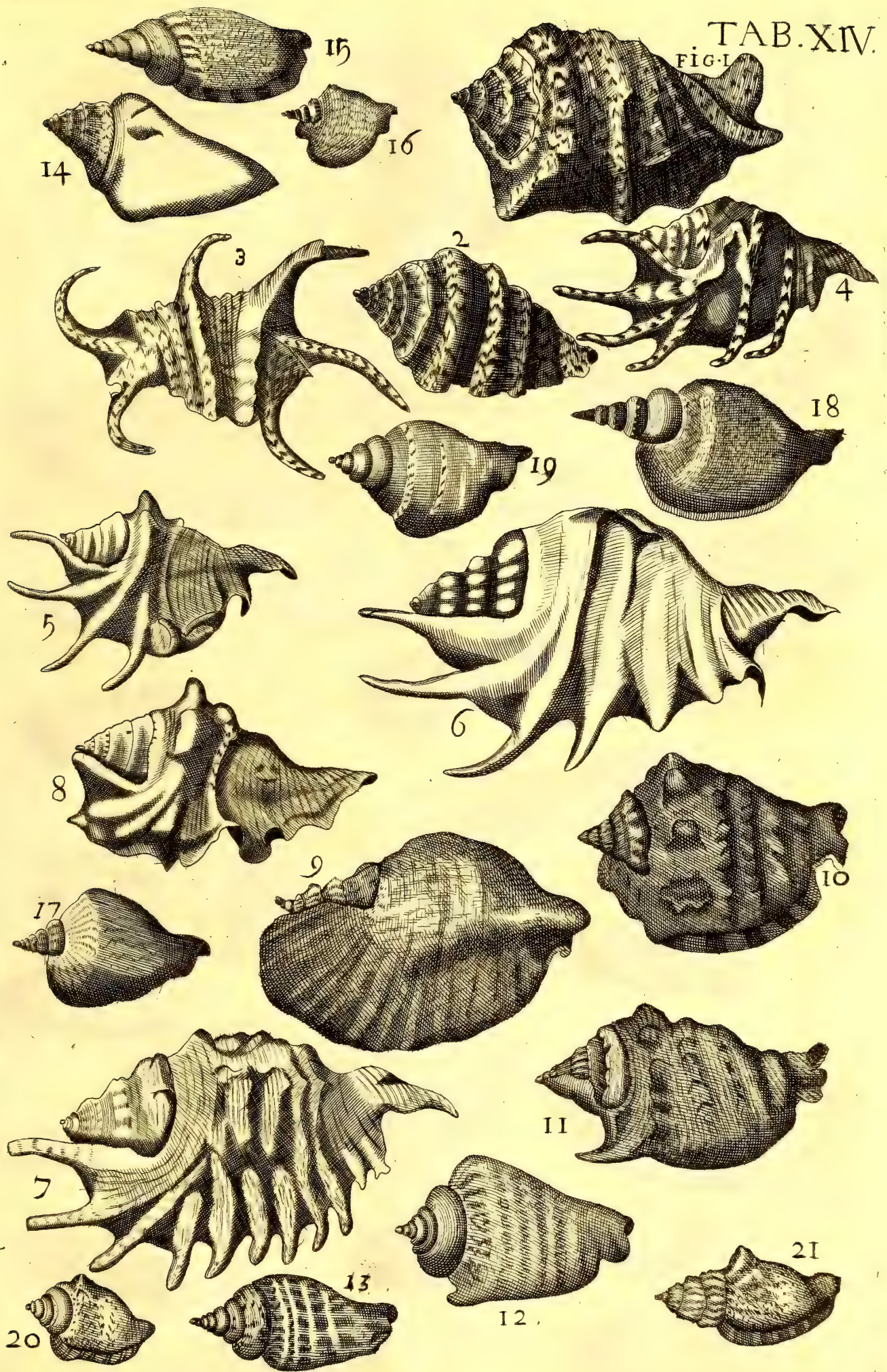
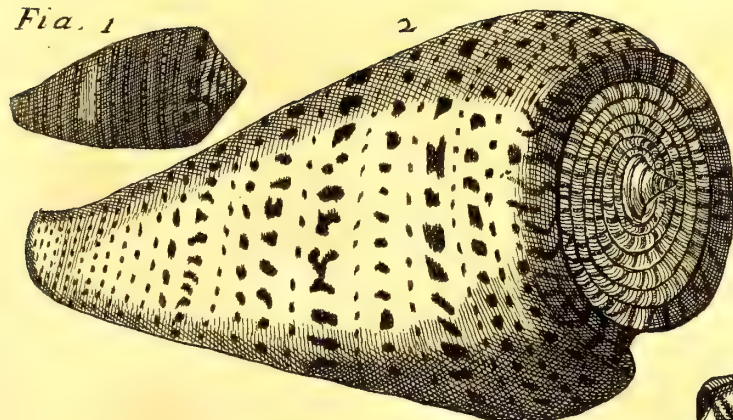
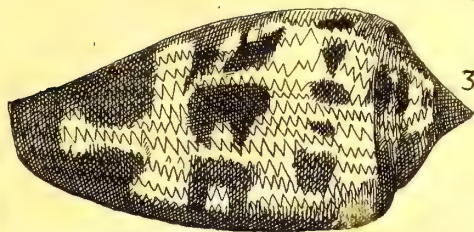


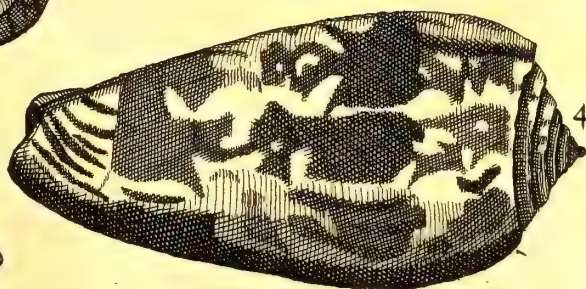
Fig. 1



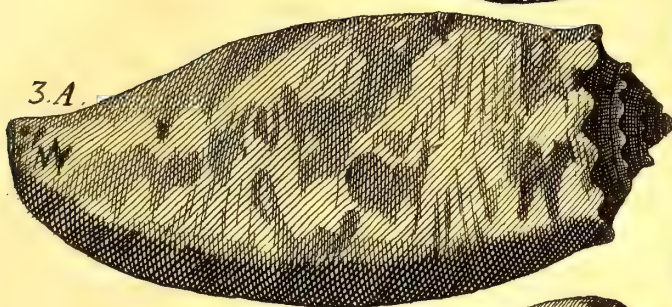
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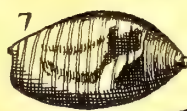
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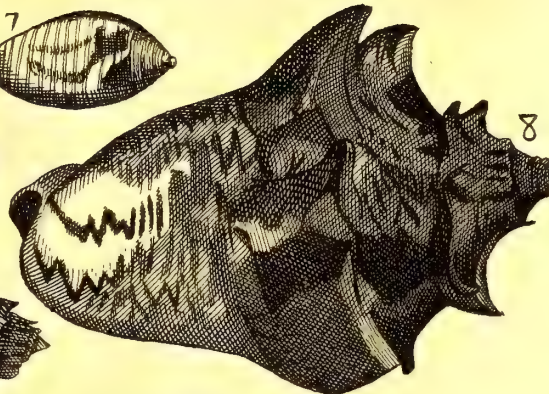
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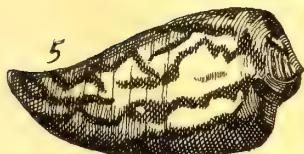
3.A.



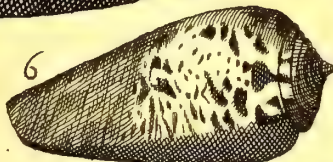
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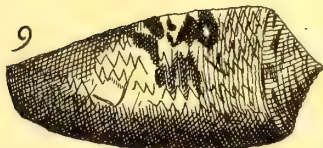
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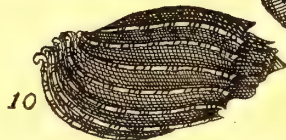
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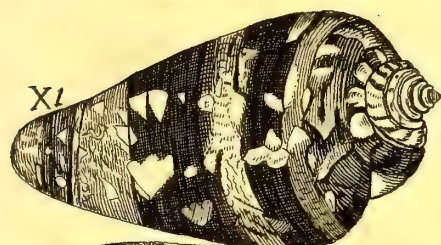
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9



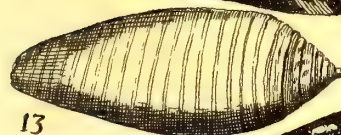
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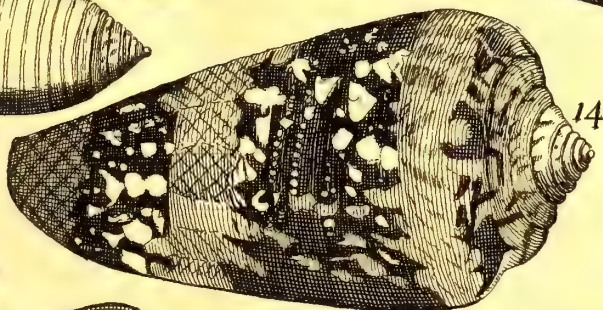
XI



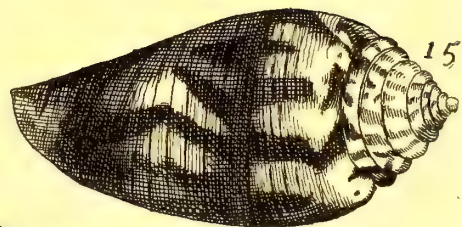
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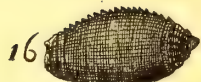
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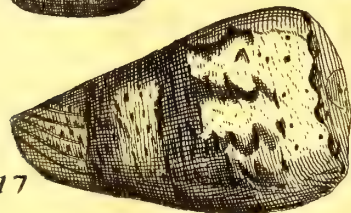
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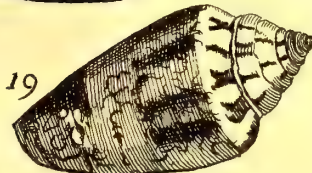
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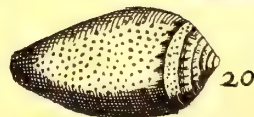
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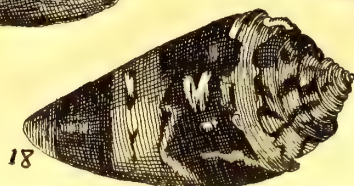
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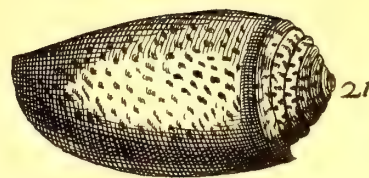
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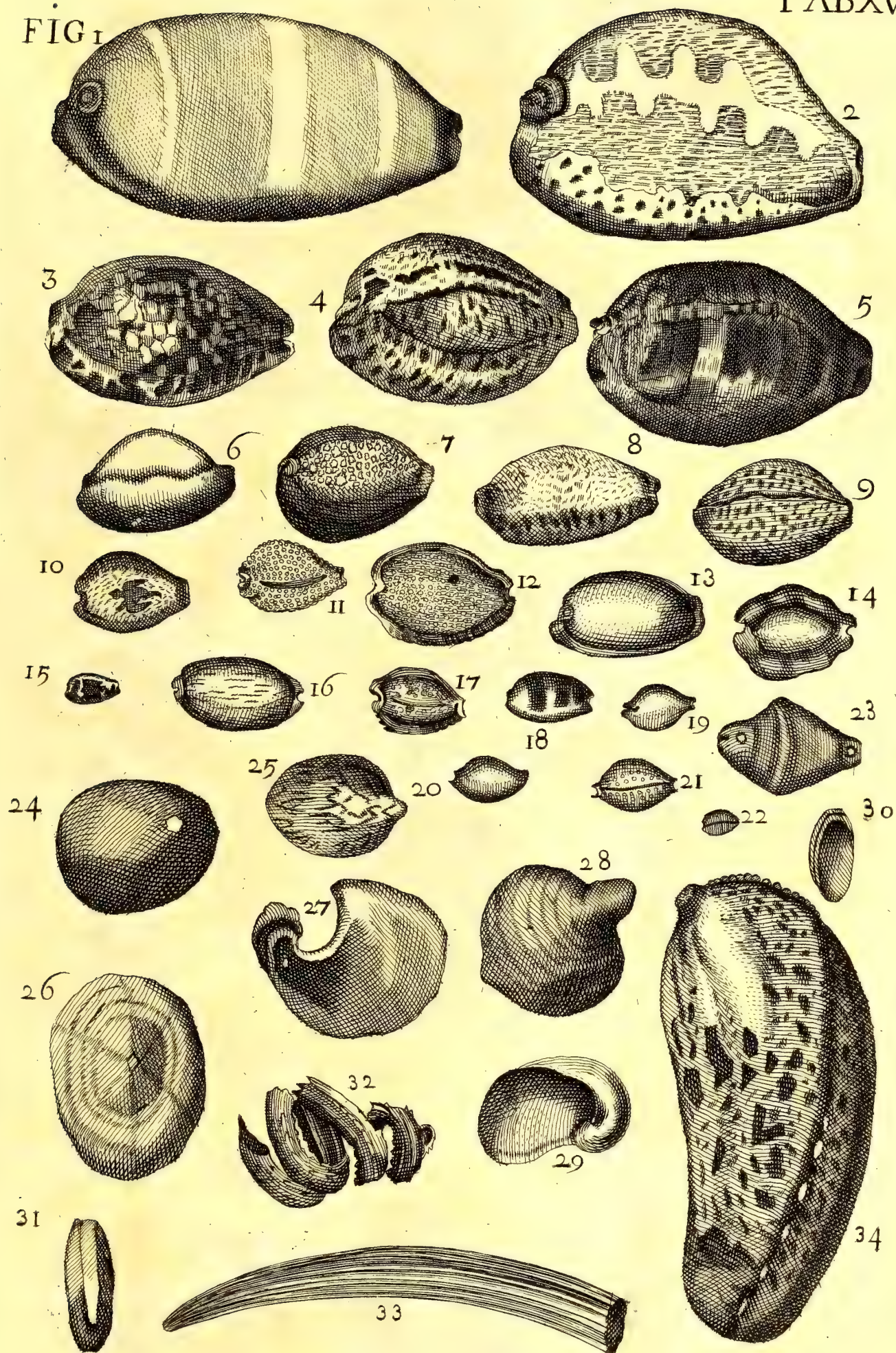
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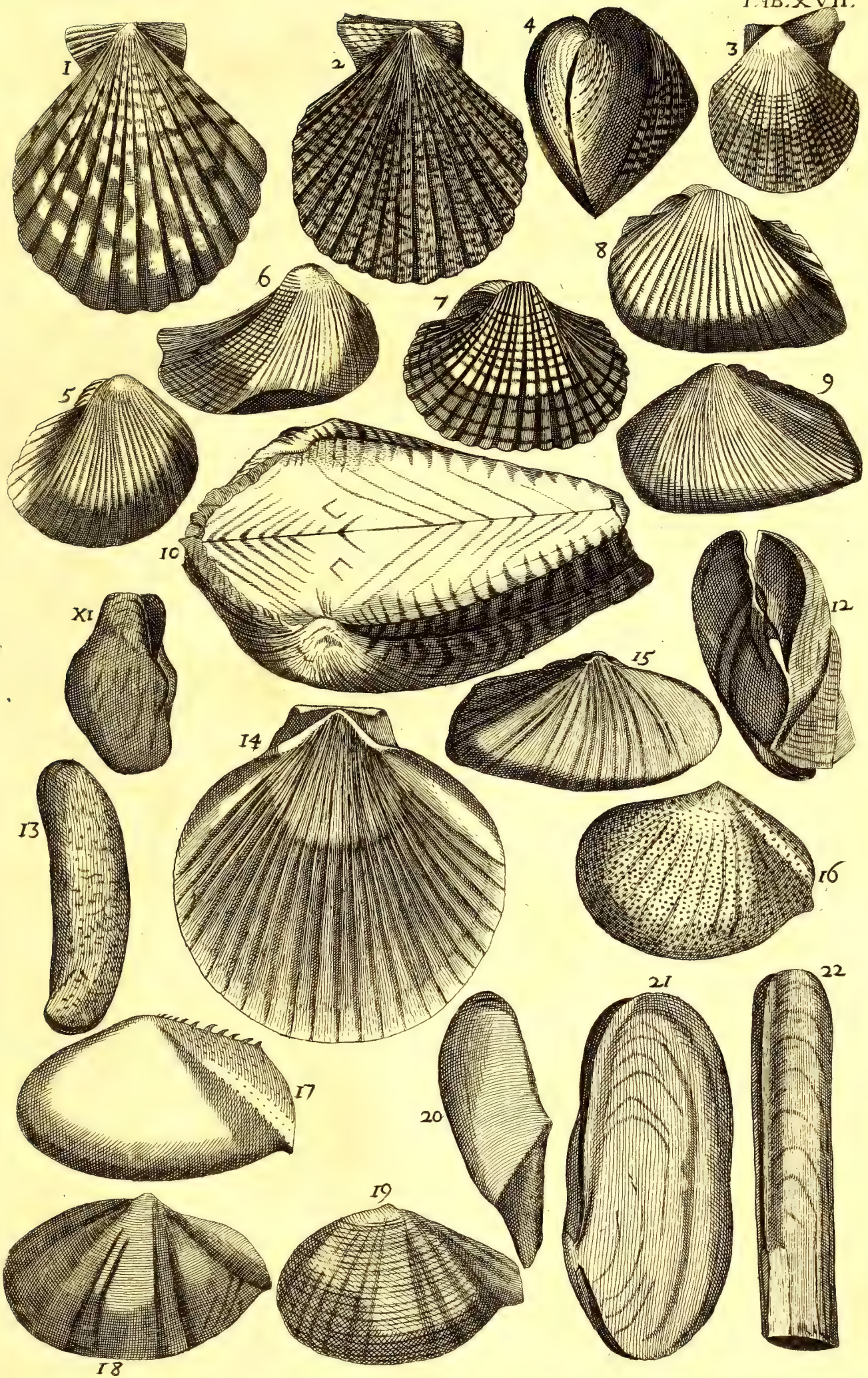


21



FIG 1





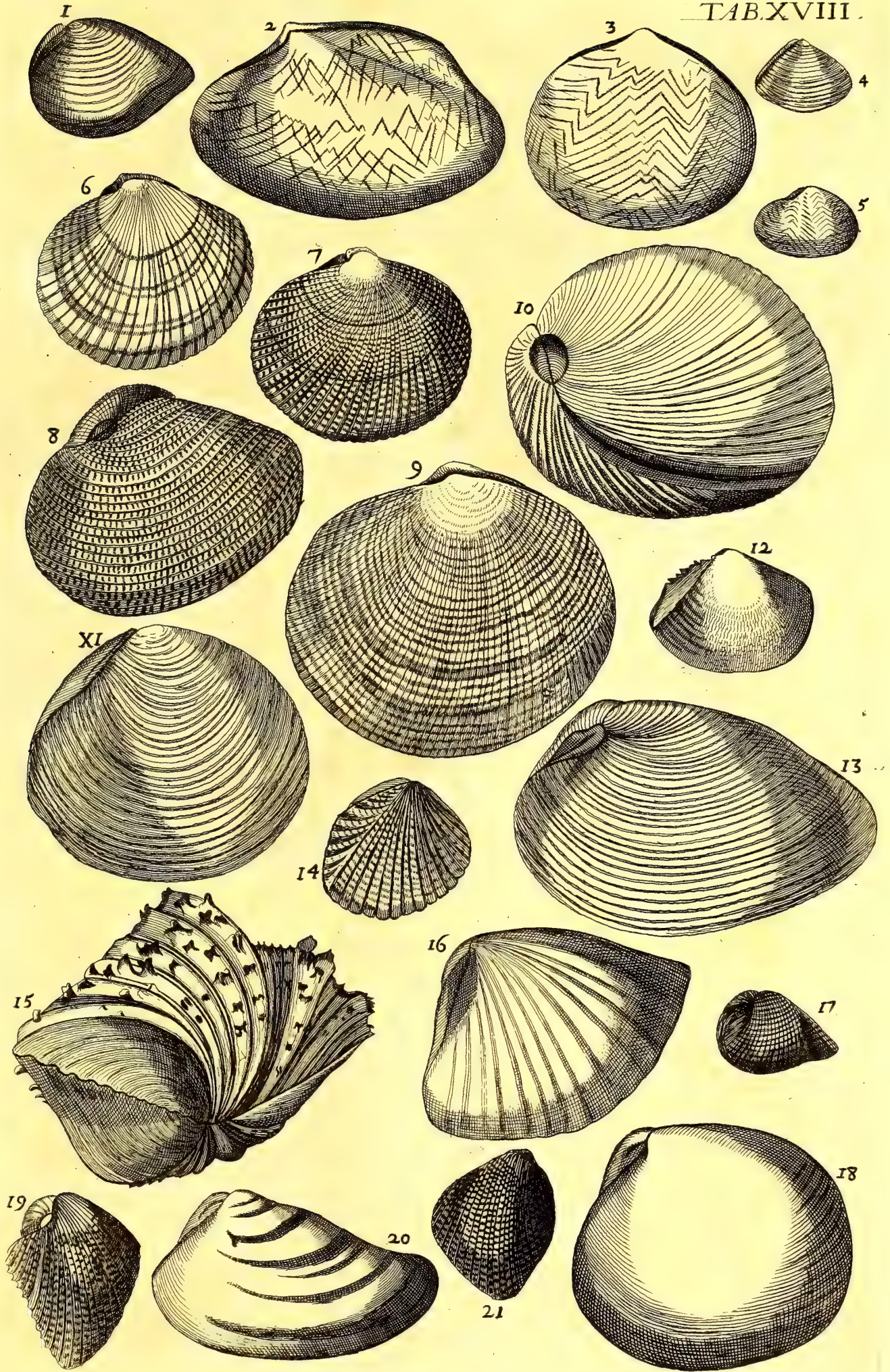




FIG. I.

TAB. XX.





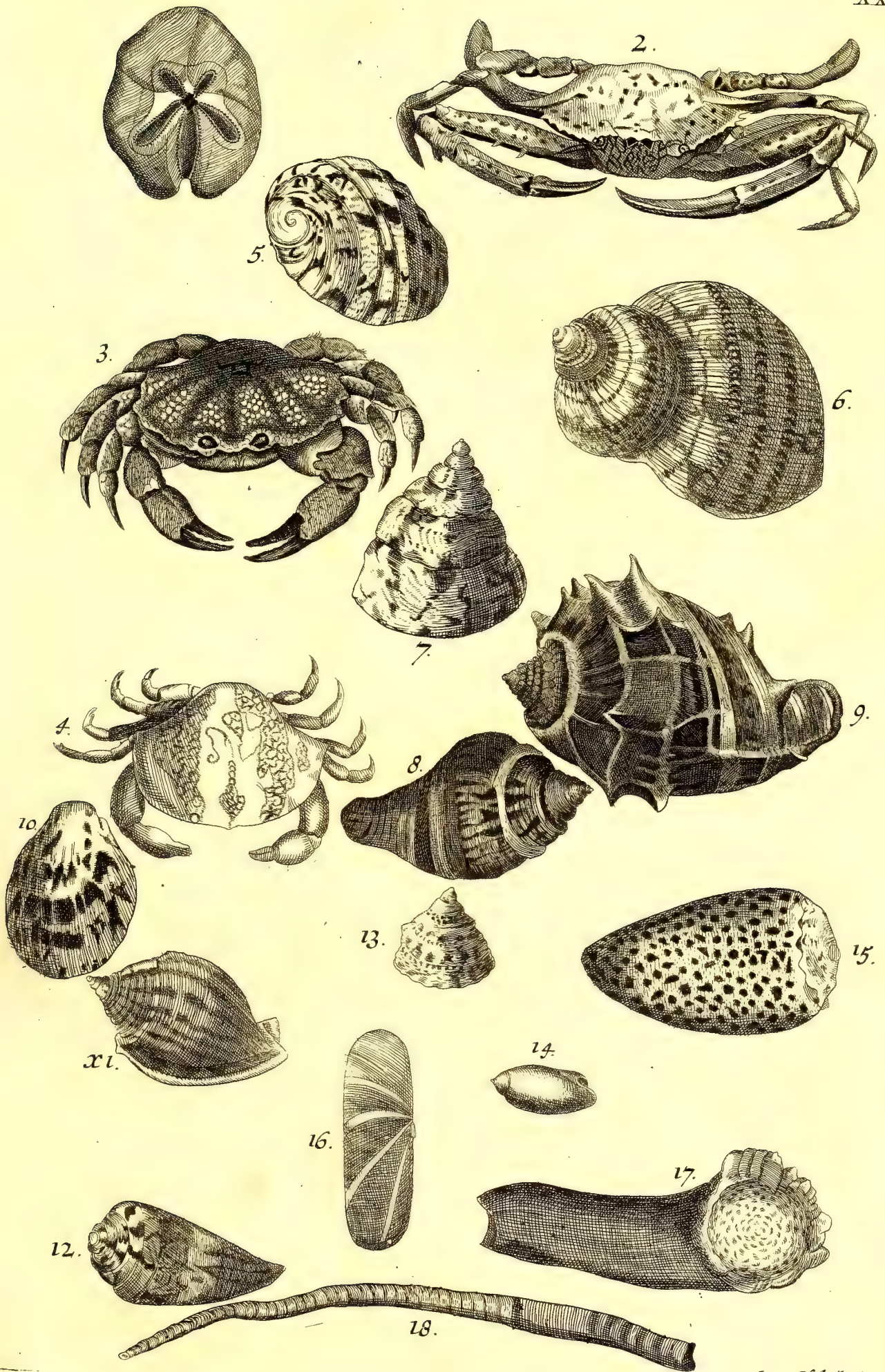
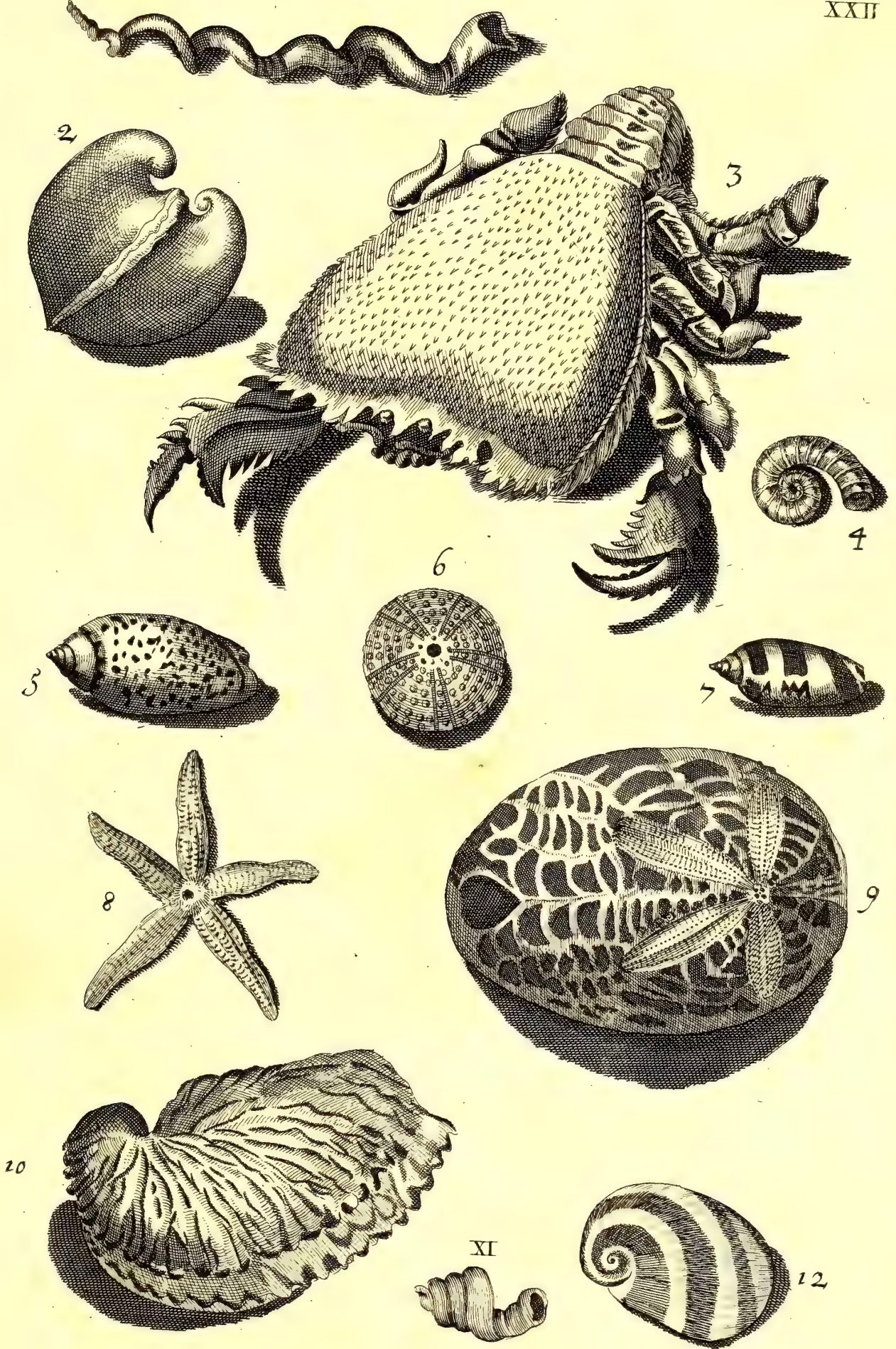




Fig 1



T A B. XXI.

Fig.

- 1 **E**CHINUS fulcatus. Doodshoofd.
Rumphii Tab. 14. fig. 2. p. 36.
- 2 Pagurus. Reidjungan. Stekel Krabbe. *Stickling Crab*.
Rumphii Tab. 7. L. R. pag. 11. c. 8.
- 3 Cancer Aeneus. Cattam Tambaya. Koper Krabben. Belg.
Copper Crab.
Rumphii Tab. 11. fig. 4. pag. 18. c. 17.
- 4 Cancer floridus. Cattam Bonga. Bloem-Krabbe. *Flower Crab*.
Rumphii Tab. 8. fig. 5. p. 16. c. 15.
- 5 Valvata semilunaris vera. *Moon-spotted Nerit*.
Rumphii Tab. 22. fig. 3.
- 6 Cochlea lunaris minor. Bia matta bulan.
Rumphii Tab. 19. fig. 5.
- 7 Trochus maculosus. Bia Cucuffan.
Rumphii Tab. 21. f. 4.
- 8 Cassis verrucosa. Pimpeltje.
Rumphii Tab. 24. f. 3.
- 9 Cassis verrucosa. Pimpeltje. Dubbelde getakte.
Rumphii Tab. 24. fig. 2.
- 10 Cochlea striata. Bia Tsjon-kil. Maculis nigris & albis.
Rumphii Tab. 22. fig. 8. p. 79.
- 11 Cassis levis. Gestreepte Bezoar.
Rumphii Tab. 25. fig. 2.
- 12 Voluta. Bia Tsjintfjing. Groote Olyve Bard Toot.
Rumphii Tab. 31. fig. 5.
- 13 Trochus tuberculatus. Bia Cucuffan.
Rumphii Tab. 21. fig. 10.
- 14 Cyllindrus decimus. Rollen.
Rumphii Tab. 39. fig. 8. p. 120.
- 15 Voluta arenata. Bia Tsjintfjing. Vlooje-scheet.
Rumphii Tab. 33. fig. 2.
- 16 Tellina violacea. Purpere Sonne Straal. of. groote Tour de
Bra. *Welt rib'd Muscle*.
Rumphii Tab. 45. f. E.
- 17 Phallus. Lift. H. C. tab. 548. No. 3. Venus-schagt.
Rumphii. Tab. 41. f. 7.
- 18 Tubulus Vermium. Hoorn slang.
Rumphii Tab 41. fig. 3.

T A B. XXII.

- 1 Tubulus Vermium. Lift. tab. 548. No. 1. Hoornslangetje
Rumph. Tab. 41. fig. 1.
- 2 Bucardites. Dubbelde Zotskapschulp.
Rumphii Tab. 48. fig. 10.
- 3 Cancer Raniformis. Cattam Cadoc. Malaice, Hyu Allaac.
Amb.
Rumph. Tab. 7. Lit. T.
- 4 Cornu Hammonis. Amboinice, Tay Manusamal. Post-
Hoorrentje.
Rumph. Tab. 20. fig. 1.
- 5 Cylinder octavus. Blauwdroppen.
Rumph. Tab. 39. fig. 6.
- 6 Echinus faxatilis. Turkschen Tulband.
Rumph. Tab. 14. Lit. A.
- 7 Cylinder nonus. Groote Glimmetjes.
Rumph. Tab. 39. fig. 7.
- 8 Stella marina, 5 radiorum.
Rumph. Tab. 15. Lit. E.
- 9 Echinus striis marmoreis dotatus. Doodshoofd.
Rumph. Tab. 14. No. 1.
- 10 Nautilus tenuis. Rumph. Tab. 18. fig. 4. p. 67. Roema
Gorita, Malaice. Lift. tab. 554. *Fine brittle Sailer*.
- 11 Tubulus Vermium. Hoorn-slangetje. Rumph. Tab. 41.
No 2. Lift. tab. 548. fig. 2.
- 12 Valvata fasciata. Bia Tsjonkil. Mal.
Rumph. Tab. 22. fig. 2.

T A B. I.

Rudiments of BOTANY.

FIG.

- 1 Coralline. *Sertularia.*
- 2 Sea wrack in Seed. *Fucus.*
- 3 Spangle Mofs. *Lichen.*
- 4 Shank Mofs. *Bryum.*
- 5 The Spike of the Horse-tail. *Equisetum.*
- 6 Fern with its Seeds. *Polypodium.*
- 6 a. b.) The same magnified.
- 7 Demi-flower.—Semiflosculus. *Leontodon.*
- 8 Compound flower.—Compositus. *Doronicum.*
- 9 Radiated flower.—Radiatus. *Star-flower. Aster.*
- 10 A compound flower of the Bottle flower. *Cyanus.*
- 11 Umbell, with a. its Flowers, and b. its Seed.
- 12 Corniculated-flower. Heel flower. *Aquilegia.*
- 13 *Star-Plant.*—Folius verticillatis. *Gallium.*
- 13 a.) Its flowers.
- 13 b.) Its fruit.
- 14 Cap flower, *Cerinth.*
- 15 Pipe-flower. *Primula.* (Hypocrateriformis)
- 16 Naked flowret. *Statice?*
- 17 Whorle Plant.—Floribus verticillatis. *Sideritis.*
- 17 a.) Its blossom.
- 17 b.) Its cup.
- 17 c.) Ditto cut open, with the Seed.
- 18 Burhead. The Seeds of a Butter flower. *Ranunculus.*
- 19 Star-head. The Seeds of Hopyrum,
- 20 A Buckler. The Seeds of *Cynoglossum.*
- 21 A Pea Blossom. *Pisum.* (*Papilionaceus.*)
- 22 A Snout-flower. *Antirrhinum.* (*ringens*)
- 23 A monopetalous, regular flower of *Convolvulus.*
- 24 A bottle-shap'd Flower of *Convallaria.*
- 25 A tripetalous Flower of *Damasonium.*
- 26 A pentapetalous Flower of *Potentilla.*
- 27 A Liliaceous blossom of *Crocus.*
- 28 A bipetalous Blossom.
- 29 A tetrapetalous Flower of *Brassica.*
- 30 A Rotated (wheel-like) blossom of *Omphalodes.*
- 31 A Polypetalous blossom of *Iris.*
- 32 An Apetalous Flower of *Bistorta.*
- 33 Ditto of Rush? *Juncus.*
- 34 Ditto of *Sparganium.*
- 35 A Flower of a Grass. *Poa.*
- 36 Ditto of oat. *Avena.*
- 37 Ditto of a *Cyperus.*
- 37 a. The same magnified.
- 38 Flowers of Hazel. *Corylus.*

T A B. II.

Rudiments of BOTANY.

FIG.

- 1 The blossom of *Corona imperialis*, to shew the different Parts of a Flower;
 - a.) The Petala.
 - b.) The Stamina.
 - c.) The Pistillum.
 - d.) The Rudiment of the fruit.
- 2 A Stamen with its a.) *Filament*, and b.) *Apex.*
- 3 A Filament by itself.
- 4 A Stamen with the *Apex* burst.
- 5 An *Apex* by itself.
- 6 A Stamen with the *Apex* flat-open'd to shew the *Farina.*
- 7 A Stamen of *Populago* (*Caltha palustris.*)
- 8 A Stamen open'd on both sides.
- 9 A magnified *Apex* of the *Epimedium.*
- 10 A magnified *Pistillum* of *Populago.*
- 11 Flowrets (Flosculi) of Plants with compound Flowers.
 - 11 A.) A Flowret magnified.—a.) The *Seed.*—b.) The *Pappus.*—c.) The *Tub.*—d.) The *Limbus.*—e.) The *Cylinder* of the *Apices.*—f.) The *Summit* of the *Pistill.*
 - 11 B.)—a.) the *Filaments.*—b.) The *Cylinder* of the *Apices* cut open.
 - 11 C.) A Flowret, whose *Seed* has no *Pappus.*
 - 11 D.) A demi-flowret, of a radiated Flower.
- 12 An *Apex* of *Epimedium* burst open from below.
- 13 A Pistil of *Gentiana.*
- 14 A Pistil of a *Campanula.*
- 15 The Pistil of a *Lilium*, where the *Stylus* is cut to shew that it is hollow.
 - 15 A.) The same magnified to shew the roughness of the summit.
 - 15 B.) The Rudiment of the fruit cut transversely, so that the three loculaments are seen.
- 16 The Cup (*Calyx*) of a *Ranunculus*, consisting of five leaves.
- 17 The Seed Vessel of a *Papaver.*
- 18 A two-leav'd Cup of a *Papaver.*
- 19 A five-leav'd cut cup of a *Rose.*
- 20 A Cone of a *Fir.* (*Abies.*)
- 21 A Catkin of the Blossoms in *Willows.* (*Salix.*)
- 22 The Fruit of the *Blackberry.* (*Rubus.*)
- 23 A Nut of *Hazel.* (*Corylus.*)
- 24 A winged Seed of *Ash* (*Fraxinus*)
- 25 The Seed-vessel of the *Spindle-berry.* (*Euonymus.*)
- 26 A Cone of a *Pine.* (*Pinus.*)
- 27 An Acorn of an *Oak* (*Quercus.*)
- 28 The fruit of a *Rose*, prickly, and crowned with the Leaves of its Cup.
- 29 A Berry, round and smooth.
- 30 The fruit of *Beech.* (*Fagus.*)
- 31 A winged Seed of *Elm.* (*Ulmus.*)
- 32 The Seed-vessel of *Linden-berry.* (*Tilia.*)





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